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GOVERNMENT OF INDIA
THE PATENT OFFICE



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1960

*(Containing matters relating to Patents and Designs
for the Years 1958 to 1960)*



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INTRODUCTORY NOTE

This volume deals with applications for the grant to Patents made during the year 1958 and Designs registered during the year 1959, under the Indian Patents and Designs Act, 1911 (II of 1911), and forms a continuation of the Consolidated volumes for 1900—1911 and 1912—1920, and the journals issued for the periods 1921 to 1959. The lists of special proceedings in respect of Patents and Designs included in this volume cover the period 1960.

A list of patents in force on the 31st December, 1960 is given in Part IV of this volume.

Pending the next issue of this Journal, the Weekly Notifications of the Patent Office, published in the Gazette of India, Part III, Section 2, should be consulted.

S. VENKATESWARAN,
*Controller General of Patents,
Designs and Trade Marks.*

NOTICES OF THE PATENT OFFICE

1. *Patent Office: Address and Communications.*—The Patent Office which administers the Indian Patents and Designs Act and grants patents thereunder is situated at 214, Lower Circular Road, Calcutta-17. It has no branches anywhere. The Office is in charge of the Controller General of Patents Designs and Trade Marks. All communications intended for the Patent Office should be addressed to him.

2. *Office hours.*—The Office and the Public Room attached to it are open to the public from 10 a.m. to 5 p.m. on all working days. On Sundays and Government holidays the Office remains closed to the public.

3. *Existing Law and Instructions.*—The existing law governing the grant of patents and registration of designs in India, and detailed instructions for the preparations of the specifications and drawings and other directions for the guidance of inventors and others are given in the PATENT OFFICE HANDBOOK, Eleventh Edition.

As the value of patents depends largely upon the skilful preparation of the specification and claims, applicants for patents are in their own interest, advised to consult the Handbook before an application is made to the Controller of Patents and Designs.

4. *Sale of Publications.*—The Patent Office Handbook, Eleventh Edition (Price Rs. 6-00 per copy) is on sale with the Manager of Publications, Civil Lines, Delhi.

Printed specifications of inventions bearing the numbers 1 to 68,000 are sold by the Patents Office. Printed specifications from 68,001 onwards are stocked by the Incharge, Government of India Book Depot, 8, Hastings Street, Calcutta-1, and copies thereof may be obtained from him either on cash payment or by mail order.

Other publications of the Patent Office are on sale at the Office of the Manager of Publications, Civil Lines, Delhi. Copies of the said publications are also available at the Government of India Book Depot, 8, Hastings Street, Calcutta-1 for local sale on cash payment only at the counter of the Depot.

5. *Inspection Centres.*—The printed specifications of inventions and other publications of the Patent Office have

been deposited for the inspection of the public FREE OF CHARGE at the following places :—

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ANNAMALAINAGAR	The Librarian, Annamalai University Library, Annamalainagar, P.O. South Arcot, Dist. Madras.
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JORHAT . . .	The Principal, H. R. H. The Prince of Wales Technical School, Jorhat, Assam.
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" . . .	The Director, Central Drug Research Institute, Lucknow, U.P.
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" " . . .	The Director, National Physical Laboratory of India, New Delhi-12.
" " . . .	The Secretary, Inventions Promotion Board, L. I. C. Building, Parliament Street, New Delhi-1.
PATNA . . .	The Director of Industries, Bihar, Patna, Bihar.
POONA . . .	The Curator, Lord Reay Maharashtra Industrial Museum, Phule Market Tower, Poona-2, Maharashtra.
" . . .	The Director, National Chemical Laboratory of India, Poona-8, Maharashtra.
ROORKEE . . .	The Director, Central Building Research Institute, Roorkee, U.P.
TRIVANDRUM . . .	Professor of Applied Chemistry, University of Kerala, Trivandrum, Kerala.
WALTAIR . . .	The Registrar, Andhra University, Waltair, Andhra.
WASHINGTON . . . (U.S.A.)	The Commissioner of Patents, The Patent Office, Washington, D.C.

The publications of the Patent Office other than printed specifications are available for free inspection also at the office of the High Commission of India, India House, Aldwych, London, W.C. 2, England.

PART I.

Applications for Patents, 1958.

This part contains the chronological list of application for patents made during the year 1958. The date and the number of each application, the name of the applicant and the title of the invention are stated in all cases except where the applications are deemed to have been refused (shown in this volume as "Void"), and the specifications in respect of which have not been published. These details are followed by a brief indication of the nature of the invention so as to supplement, in a few words, the information given in the title of the application.

The dates shown in crescent brackets are the dates allowed or claimed under reciprocal arrangements.

JANUARY 2, 1958.

62721. Void.

62722. Chetana Trading Corporation. Improved electrical connectors for electrical accessories such as plugs, lamp holders and the like. Characterized in that when the two split parts of the socket are joined together by a screw means, the terminal inserted inside the socket are sandwiched and securely held in position between the screw in each terminal and the closed portion of the other part of the socket.

62723. Industrial Minerals and Chemicals Co. Improved quick-setting cement composition and method of manufacturing the same. Composition of portland cement, calcium chloride, calcium sulphate and calcium oxide.

62724. Automatic Telephone & Electric Company Limited. Improvements in graduated howler circuits for use in telephone systems. In which the insertion of a plug in a distribution jack causes the charging of a capacitor which in the charged condition blocks a thermionic tube to which the output of an oscillator is applied.

62725. The British Oxygen Company Limited. Reciprocating pumps. (January 28, 1957.) Wherein means are provided for controlling flow of liquid to reservoir to maintain the liquid in predetermined level, comprising valve to vent gas from reservoir and control operating valve according to liquid level in reservoir to maintain liquid at predetermined level.

62726. E. Biller. Method for carrying out chemical reactions in a layer of sprayed whirling liquid. Wherein treating agent sprayed inside reaction vessel in circulation forms whirled layer through which gaseous reactants are conducted.

62727. Zavody V. I. Lenina, narodni podnik. A Bogie for railway vehicles. Main frame supported on bolsters over rockable props and the pivot trunnion being linked to the bogie frame by a spherical bearing displaceable laterally.

62728. Aktieselskabet De Danske Sukkerfabrikker. A process for the continuous lixiviation of divided solid material and a continuous diffusion apparatus therefor. Feeding divided solid material continuously at the lowermost end of the treatment stage and feeding a liquid lixivating agent continuously at the opposite end.

62729. Didier-Werke A.G. Process for the recovery of ammonium sulphate from gases containing ammonia. Wherein the ammoniacal gases are first cooled and then washed with sulphuric acid.

62730. Kyowa Hakko Kogyo Kabushiki Kaisha. Process for the production of citric acid by fermentation. Culturing a strain of penicillium adametze zaleski var kuensanii in a nutrient medium.

62731. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and G. de Varda. Cell for fused-salt electrolysis with self-restoring anode and furnace and process using such cell. (December 31, 1957.) Comprising two electrodes with opposed inclined plane and parallel active faces of which the anode comprises an electrolytically consumable and restorable active layer, characterised in that the surface against which the layer rests forms an acute dihedral angle with the plane of the opposite electrodic face.

62732. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and G. de Varda. Refractories resistant to aggressive melts and treatment for obtaining them. (December 24, 1957.) Refractory is contacted with an inert liquid that wets the refractory and contains relevant quantities of organic substances apt to be coked and the impregnated refractory is subjected to subsequent coking heat-treatment.

62733. Ciba Limited. Process for the synthesis of 18-oxygenated steroids. A 20-oxo-pregnane 21-acid/21-acid ester which may be unsaturated in the 16:17-position is reduced with LiAlH_4 , the resulting 20: 21-dihydroxy-pregnane is converted into a 20-oxo-21-hydroxy-pregnane or a 21-ester thereof, 16: 17 double bond is hydrogenated and protected oxo-groups are liberated.

62734. Ciba Limited. Manufacture of new pyrimido pyrimidines. Converting a group convertible into an amino group in the 7-position of a pyrimido [4, 5-d] pyrimidine, into amino group.

62735. The British Thomson-Houston Company Limited. Improvements in and relating to electric discharge lamps. (January 8, 1957.) Tip of cathode on which are roots and which is presented towards the anode has a plurality of field-intensity-increasing projections of uniform length and spacing from main body of the cathode.

JANUARY 3.

62736. The Britannia Engineering Company Limited. Improvements in or relating to material processing machinery such as tea machinery. Tea machinery comprising a spreading device carried by a rotatable shaft or like member.

62737. The Firestone Tire and Rubber Company. Improvements relating to the treatment of a continuous element of a heat shrinkable textile. Passing continuous polyamide textile elements through three zones of treatment wherein the elements are stretched in the first two zones and relaxed a controlled amount under high temperature in the third zone.

62738. Molins Machine Company Limited. Method of and apparatus for forming tobacco fillers or streams. (January 4, 1957.) Cut tobacco showered on a slow moving conveyor and manipulated to provide an uniform stream is transferred to a faster moving conveyor.

62739. Void.

62740. Void.

JANUARY 4.

62741. Void.

62742. General Electric Company. Speed control device for turbo-propeller engines especially for helicopters. Combustor is automatically varied to maintain turbine and helicopter rotor speed constant.

62743. W. Eckhardt. Method and apparatus for producing tubular elements or bodies from flat strips. Spirally coiling flat strip solely by moving

engagement with inner curved surface of a hollow shaping tool so that curved edges of adjacent portions of the strip engage each other.

62744. Imperial Chemical Industries Limited. Fabrication of foamed articles. (January 11, 1957.) By injecting the polyurethane foam generating mixture into a hollow mould and then generating foam therefrom to fill the mould.

62745. Imperial Chemical Industries Limited. Process for the fabrication of a composite article from sheet materials. (January 11, 1957.) A sheet of polyvinyl chloride and a sheet of foamed polymethane independently embossed with the same pattern and bonded together so that the patterns are superimposed one upon the other.

62746. Imperial Chemical Industries Limited. Manufacture of hyponitrous esters. (January 14, 1957.) Reacting silver hyponitrite with an organic dihalide in the presence of a hydrogen halide.

62747. Dunlop Rubber Company Limited. Improvements in and relating to the repair of thermoplastic materials. (January 15, 1957.) A patch for use in the repair of thermoplastic materials comprises a pair of similarly shaped superimposed members of like thermoplastic material secured together at their peripheral edges, one member being imperforate on the other member having a hole formed therethrough.

62748. The Goodyear Tire & Rubber Company. Improvements in electric heating element for retreading or recapping, pneumatic tire casings and method of and apparatus for producing it. Comprising an endless circular body made of resilient material, a heating coil embedded in the body.

62749. Void.

JANUARY 6.

62750. Void.

62751. Council of Scientific and Industrial Research. Manufacture of cellulose carboxyalkyl ethers. By reacting cellulose, alkali and etherifying agent in a suspending medium consisting of ethyl alcohol.

62752. Olin Mathieson Chemical Corporation. Preparation of cobalamins. Culturing precursor requiring vitamin B₁₂ producing microorganism in cobalt-containing nutrient medium treating separated cell formed with precursor.

62753. British Insulated Callender's Cables Limited. Improvements in or relating to high tension electric cable joints and terminations. (January 10, 1957.) A pre-formed annular body of insulating material comprising a moulded body of synthetic resin base material, having in its annular wall a concentrically disposed and circumferentially complete cavity whose wall surface is metallised to form an electrically conductive stress distributing ring.

62754. Hobourn-Eaton Manufacturing Company Limited. Variable displacement rotary pump. (February 19, 1957.) Fluid pumping system comprising a pump having a pair of pumping chambers and valve means for controlling the discharge.

62755. J. T. Foufounis. A device for positioning and driving records for multiple selection electric record players. (September 10, 1957.) Comprising driving plate driven by a mechanism, a pick-up arm, plurality of independent supporting arms one for each record, each of which is attached to a concentric roller, and means for positioning the driving plate in driving relationship with the roller and for simultaneously positioning the pick-up opposite the first groove of the record.

62756. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung, formerly known as Vereinigte Kugellagerfabriken Aktiengesellschaft Schweinfurt. Improvements in or relating to bearing units for the spindles of spinning and twisting frames. (Addition to No. 46541.) Centering sleeve has different wall thickness, zone having the greatest wall thickness is arranged in the section of the sleeve in which end of recesses adjacent to neck bearing is situated.

62757. Imperial Chemical Industries Limited. Process for the manufacture of new monoazo dyestuffs. (January 23, 1957.) [Addition to No. 55845.] Interacting equimolecular proportions of cyanuric halide, aminobenzoylamino-hydroxyna-phthalene-sulfonic acid and diazotised aromatic primary amine.

62758. P. S. Mehta. An improved safety razor. Comprising a pressure plate, a safety guide plate, a safety razor blade and a handle, the pressure plate has one of its longitudinal sides longer than the side opposite and the safety razor blade consists of one longitudinal section of a half cut standard two edged safety razor blades.

62759. Sir C. D. Burney (Bart.). Improvements relating to the treatment of materials, including tobacco in barns or other such chambers. (February 8, 1957.) Apparatus for the treatment of tobacco comprising a funnel in a chamber and fan means at the lower part for circulation of gaseous medium.

62760. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Method of preparing synthetic staple fibers. Forming filaments consisting predominantly of highly crystalline polymers of propylene by extruding molten polymers, collecting filaments in single continuous roving and subsequent others.

62761. Sandoz Ltd. Process for the manufacture of new phenothiazine derivatives. (October 31, 1957.) Condensing a phenothiazine derivative with a β -halogen methyl-piperidyl derivative and if desired, converting the base into an acid addition salt.

62762. Sandoz Ltd. Process for the manufacture of new phenothiazine derivatives. (October 31, 1957.) 3-alkyl or aralkyl-mercapto-phenthiazine is reacted with a β -halogen-methyl-piperidyl derivative.

62763. Sandoz Ltd. Process for the manufacture of stable aqueous solutions of podophyllum glucosides. (December 3, 1957.) Adjusting pH with buffer solutions to 3.0 ± 1.0 .

62764. Hindley Brothers Limited. Improvements in or relating to the crimping of textile yarns. (January 7, 1957.) A belt moving across the direction of traverse of the yarn imparts false twist, the direction of the yarn being charged as it travels away from the belt.

62765. Ciba Limited. New substituted indole-(2)-aldehydes and process for their manufacture. Reacting 1-substituted indole-(2)-lithium with N-disubstituted formamide and hydrolysing the product.

62766. Sejr Pedersen and Siegfred Pedersen. A self-binding mowing machine. Front plate is rearwardly disposed in relation to the upright wall and connected thereto by a curved wall extension having slots and that carrier of tying and knotting mechanisms is provided with breast plate.

JANUARY 7.

62767. Universal Oil Products Company. Process for the isomerization of hydrocarbons. In presence of catalyst comprising refractory metal oxide, platinum group metal and 2.0 to 5 per cent. by weight of combined fluorine.

62768. Union Carbide Corporation (formerly known as Union Carbide and Carbon Corporation). Non-aqueous primary cell and method of making the same. [Addition to No. 60097.] Anode of silver, solid electrolyte of silver iodide a depolarizer comprising an oxide of a polyvalent metal in the higher valency state and a cathode collector of stainless steel.

62769. Societe Des Usines Chimiques Rhone-Poulenc. New phenthiazines derivatives and processes for their preparation. 1-[3-(3-chloro-10-phenthiazinyl)propyl] piperazine is reacted with N-dimethyl-chloroacetamide.

62770. Imperial Chemical Industries Limited. Process for the manufacture of new pyrimidine derivatives. (January 30, 1957.) Acylating 5-alkyl-5-phenylhexahydro-pyrimidine-4:6-dione.

62771. Farbenfabriken Bayer Aktiengesellschaft. Process for the production of fluorescent non-colouring methine compounds useful for brightening animal or vegetable fibres. (February 27, 1957.) An aromatic or heterocyclic aldehyde is reacted with a compound containing an active methylene group in presence of an alkaline condensation agent.

62772. The Singer Manufacturing Company. Sewing machine presser-foot. A thin flexible arm connects the sole plate member to the shank portion.

62773. British Insulated Callender's Cables Limited. Improvements in or relating to launching and receiving of surface waves. (July 5, 1957.) A cavity means for setting up cylindrical waves of a predetermined diameter and a surface wave conductor coupled to the cavity.

62774. Standard Telephones and Cables Limited. Improvements in or relating to selection control equipment for use in an automatic telecommunication exchange. (February 18, 1957.) [Addition to No. 54136.] Comprises a number of individual switching devices having access to a plurality of groups.

62775. L. Leslie-Smith. Improvements in or relating to vacuum flasks. Stopper means including an annular pouring lip member engaging the canister, resilient flexible means for sealing and screw means for engaging a stopper.

JANUARY 8.

62776. Glaxo Laboratories Limited. Improvements in or relating to the preparation of triiodothyronine. (January 15, 1957.) By forming a salt or salt like complex between triiodothyronine, ammonia or an organic base and alkali metal ions and then separating it.

62777. British Timken Limited. An improved method of and device for lapping a thrust rib of a race member of a tapered roller bearing to a predetermined profile. (February 22, 1957.) Only three equally-spaced lapping rollers are employed, being mounted in a carrying device or cage, and slave rollers are caused by oscillatory race member to repeatedly travel through at least 120° about bearing axis.

62778. Pending.

62779. Void.

62780. The Wellcome Foundation Limited. Improvements in and relating to Quaternary Ammonium Compounds and the preparation thereof. (January 24, 1957.) A water soluble salt such as N-benzyl-N:N'-dialkyl-N-2-phenoxyethylammonium chloride is reacted with a water soluble metallic salt.

62781. Karnani Metal Fabricators and Electro Depositors. Folding chairs. The back frame member is connected to the inside of the arms rest by a metallic link, the back frame member further connected to the seat frame member by a metallic plate secured to the back frame member, the back and front frames being in turn interconnected by a clamp.

62782. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improvements in the process for the production of hydrogen peroxide from alkyl anthraquinones using new solvents. [Addition to No. 62374.] Dissolving alkylanthraquinone in a mixed solvent of chlorinated aliphatic hydrocarbons and acetic acid esters.

62783. Pending.

62784. Farwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs. (October 28, 1957.) [Addition to No. 62215.] A trihydroxy or tetrahydroxy-monoketone, or a trihydroxy or tetrahydroxy—diketone is coupled with a diazo or tetrazo compound having at least one sulphonic acid or carboxylic acid or hydroxyl group.

62785. Agricultural Development Society. Improvements in or relating to cultivators. Cultivator provided with plurality of tines for seed bed preparation.

62786. Agricultural Development Society. Improvements in or relating to agricultural implements. A vertical handle fitted on the beam; a tool bar

fitted on said handle and extending downwards from the beam to the ground level.

62787. Daimler-Benz Aktiengesellschaft. Improvements relating to pneumatic suspensions for motor vehicle axles. (November 18, 1957.) Balance beams attached to respective end portions of an axle serve as compressed air containers in communication with the pneumatic springs associated with it.

62788. J. L. A. See. Scaffolding. Scaffolding comprising complementary elements assembled by fitting into each other.

62789. J. L. A. See. Scaffolding. Scaffolding characterised in that it is formed on the one hand of elements of relatively low height comprising up right connected by cross-bars.

JANUARY 9.

62790. N. V. De Bataafsche Petroleum Maatschappij. A method for preparing a chromium salt of an alkylated salicylic acid containing at least one alkyl substituent having 8 or more carbon atoms and a composition containing such salts. (January 11, 1957.) Reacting alkylated salicylic acid containing at least one alkyl substituent having 8 more carbon atoms or an alkali metal salt thereof with inorganic chromium salt.

62791. A. V. L. C. Debrie. Film track guide for cinematographic cameras, projectors and similar apparatus. On the one hand one of the guide-grooves is urged towards the other by elastic pressure, and on the other hand the U-shaped grooves running straight before and after plate aperture in moving direction of film comprise connecting portions having oppositely directed bends.

62792. Aktiebolaget Svenska Kullagerfabriken. Improvements in hot tops especially for ingot moulds, and method of making the same. Comprises a chemically bound body consisting mainly of a fire-proof-material, preferably sand, and a sodium silicate and/or a potassium silicate binder, the medium grain size sand being 0.4 to 2 m.m. to form a porous body.

62793. Aktiebolaget Svenska Kullagerfabriken. Machine for making hot tops for ingot moulds. Comprising an outer and inner pattern for moulding the outer and inner surface of the hot top, a lower pattern for moulding the lower portion, the patterns together enclosing a space to form a mould for the hot top and being separable in a vertical direction.

62794. Nederlandse Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Multicell electrodialysis apparatus. Wherein two halves of intermediate-cell gaskets cover each other as reflected images within packet of alternate positive and negative membranes to form cells connected with electrodes ducts.

62795. Void.

62796. Void.

JANUARY 10.

62797. Void.

62798. Food Machinery and Chemical Corporation. Improvements in the bleaching of cellulosic fabrics. Fibres absorbing an alkaline peroxide bleaching solution, contacting the fibres with steam in a closed container at pressure about 30—80 p.s.i.

62799. Frederick Parker Limited and F. W. Parker Concrete Mixers. (January 11, 1957.) A concrete mixer having rotatable mixing drum and feed mechanism comprising an annular channel.

62800. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. An improved process for polishing sheets of glass or similar materials. Wherein liquid containing abrasive material is fed at rote to remove heat developed by rubbing polisher over glass sheet.

62801. Dipl. Ing. R. O. Bracke. A method of and apparatus for centrifugal castings. Sleeve formed by number of bearings separated by asbestos packing rings heated by hot combustion products whose flow is guided by screen devices.

62802. Void.

62803. Montecatini Societa Generale Per L'industria Mineraria E Chimica. Vulcanized elastomers from substantially amorphous polymers and copolymers of alpha olefins and process for preparing the same. (January 8, 1958.) Vulcanising mixture of polymeric substance with radical initiator, compound with double bond between C-atoms one or more functional acidic groups and substance capable of forming salts with acidic groups at 30—70° C.

JANUARY 11.

62804. Void.

62805. Void.

62806. Void.

62807. Metallurgical Processes Limited and The National Smelting Company Limited. Improvements in or relating to the condensation of zinc from metallic vapours. (January 14, 1957.) Condensing zinc vapour in or condenser in which agitated molten zinc is used as the condensing medium, a layer of lead is circulated below the zinc in the condenser, is withdrawn from the condenser and cooled the cooled lead and any zinc which separates is returned to the condenser and zinc removed from a quiescent zone of the condenser.

62808. Metallurgical Processes Limited and The National Smelting Company Limited. Improvements in or relating to cooling arrangement for molten lead. (January 14, 1957.) Comprising trough through which lead is passed and one or more rotating water-cooled drums arranged to dip into the lead in trough and means for rotating drums at a speed sufficient to prevent adhesion of solid strip of lead to drum.

62809. European Research Associates, S. A. Organo-metallic compounds and method for their preparation. Reacting metal carbonyl or derivative thereof with acetylenic compound.

62810. Pending.

JANUARY 13.

62811. Void.

62812. N. V. De Bataafsche Petroleum Maatschappij. Apparatus for the separation of fine solid particles from a gas stream entraining these particles. A discharge for solid particles is present which is situated at the bottom of the belt shaped catching hood and concentrically around the riser.

62813. James North & Sons Limited. Improvements in or relating to the production of articles of protective clothing. A flowable coating material applied on a base fabric arranged on a desiredly shaped support, the wall of the said support at those part over which the coating material converts into coherent coating being of thin metal.

62814. Williams & Williams Limited. Glazing bar assemblies. Glazing bar assembly is formed in such a manner as to provide a limited area of contact between the cover strip and the web during insertion.

62815. T. Yoshida. A separator-bearing slide fastener. Provided with a means to place nylon or a vinyle type on a tape where to fix the separator.

62816. T. Yoshida. Apparatus for stamping separator tape armature and cutting chain tape of slide fastener. An air motor fixed to the upper part of C type frame with a bolt, a foot-working air valve fixed at the lower part of the frame, a rubber hose connecting the said air motor and valve, a piston rod, a cutting and stamping punch having an electric device in its interior, and a stamping dais and cut off dais.

62817. T. Yoshida. Apparatus for forming/manufacture of sliders for slide fastener chains. Apparatus composed of having respective outside presses and inside presses fixed respectively on the press sliding part and on the machine base for shaping of A surface and stamping, cutting off outer part, shaping of the external form, making of slits, stamping of the handle fixing part, shaping of handle fixing part, shaping of B surface cutting, bending and formation of the article to completion.

62818. T. Yoshida. Jump-feed apparatus of slide fastener chain machine. In a jump feed apparatus, a change shaft having a shifting key fixed inside so that certain number of gears are enabled to rotate backwards periodically and alternately to function in line with a crank shaft, a graduated circular plate accompanying a horse shoe shape graduated bar geared into said shaft and set to a feed screw.

62819. Sandvikens Jernverks Aktiebolag. Tool holder comprising a resilient device arranged to press the chip breaker against the clamping device.

62820. Metropolitan-Vickers Electrical Company Limited. Improvements relating to coupling devices for electric circuits. (January 14, 1957.) Consists of a primary vibratory member tuned and capable of being driven from the primary circuit and a secondary vibratory member similarly tuned and mechanically coupled to primary member and means for producing alternating energy in the secondary circuit.

62821. Metropolitan-Vickers Electrical Company Limited. Improvements relating to electric signal transmission systems. (February 8, 1957.) In which a signal transmitted continuously for a significant period causes operation at a receiving location of a relay coupled to the signalling channel.

62822. Metropolitan-Vickers Electrical Company Limited. Improvements relating to railway remote control systems. (January 14, 1957.) There are provided oscillating and receiving means, means for selectively coupling to the communication channel according to setting.

62823. Creed & Company Limited. Improvements in or relating to facsimile apparatus. (January 14, 1957.) Comprising first member driven by motor, clutch means for coupling second member to first member, a scanning device driven through second member, yielding means between clutch means and scanning device and braking device to bring scanning device asymptotically to position of rotation in which yielding means is in condition similar to that occupied thereby when clutch means is disengaged and scanning device is at rest.

62824. Pending.

62825. Ciba Limited. Manufacture of functional derivatives of a new active substance from suprarenal glands. Converting pregnane-3 β :16 α -diol-20-ones into monoester containing any acetyl radical only in 16-position and diester having at most one acetyl radical which is in 16-position when the other ester radical is benzoyl radical.

62826. Void.

62827. Ciba Limited. Process for the manufacture of an allopregnane-diolone compound. A functional derivative of pregnane-3 β :16 α -diol-20-one is converted into the free pregnane-3 β :16 α -diol-20-one by known methods.

JANUARY 14.

62828. PECHINEY Compagnie de Produits Chimiques et Electro-metallurgiques. Process for suppressing the level variations of molten metal and motion of liquid in electrolytic cells. Suppressing level variations of molten metal and motion of liquid in electrolytic cell arranged in lines through which passes a same current, arranging the conductors in parallel direction with the general direction of current.

62829. Societe Des Usines Chimiques Rhone-Poulenc. Improvements in or relating to new phenthiazine derivatives and processes for their preparation

Aminoalkyl substituent containing a piperazine ring is introduced into a 3-S-methyl phenothiazine in the 10-position.

62830. Societe Des Usines Chimiques Rhone-Poulenc. New phenothiazine derivatives and processes for their preparation. Alkyl substituted piperazine radical is introduced by methods known *per se* into a phenothiazine ring.

62831. May & Baker Limited. Improvements in or relating to amines and to processes for their preparation. Reacting 2-alkoxy-4-nitrophenoxide with 5-phenyl pentayl halide.

62832. Terrazzac (Proprietary) Limited. A pre-mixed plaster for providing terrazzo-type finishes. Comprises a mixture of an aggregate of particles of stone or marble, an organic bonding material emulsifiable in water, and water.

62833. Void.

62834. Void.

62835. Sines, Sociedad Para Inversiones Extranjeras S.A. Device for connecting two flexible parts, method of manufacture of said device and installation for carrying out said method. A device for connecting two flexible parts formed by two supports provided with hooking members.

62836. The British Oxygen Company Limited. Electric arc cutting. (January 31, 1957.) A jet of fluid directed into the cut in proximity to the electric arc to remove unwanted material from the cut.

62837. Imperial Chemical Industries of Australia and New Zealand Limited. Method and apparatus for the production of shaped containers and like hollow articles from organic thermoplastic materials. (January 22, 1957.) That comprises engaging a sheet of said material in a permanently deformable condition by an expansible plunger and advancing and expanding the plunger to stretch the sheet uniformly.

62838. Pending.

62839. Void.

62840. Void.

62841. J. Stone & Company (Deptford) Limited. Improvements relating to electrical supply systems. (January 15, 1957.) Comprises a generator with a rectifier and a regulator provided with a saturable reactor.

62842. The British Aluminium Company Limited. Improvements in or relating to solid electric current conductors for use in contact with molten aluminium. (January 16, 1957.) Composed of a sintered compacted mass constituted of at least two compounds selected from the group consisting of carbides and borides of titanium, zirconium, tantalum and niobium.

62843. Robert Bosch GMBH. Improvements in or relating to regulating systems for low voltage electric generators. Having parallel-connected field winding, in which at least one crystallode semi-conductor is used for controlling exciter current.

62844. Void.

62845. Pending.

62846. K. J. Aga. An electrical switch. Including a resilient flexible strip having the shape of a shallows, a contact placed above the strip and another contact below the strip and means for applying pressure on one of the arm of the S.

JANUARY 15.

62847. Void.

62848. Void.

62849. Materiel Industriel S.A. and Constructions Mecaniques S.A. Repens Pressure fluid controlled device for actuating the tool carriers of a machine

for packing the ballast of railway lines. A pressure fluid controlled device for actuating the tool-carriers of a machine.

62850. Imperial Chemical Industries Limited. Polymerisation Catalysts. (February 7, 1957.) Rare earth metal compound is treated with a compound selected from the hydrides, alkyl hydrides, alkyls, cycloalkyls, aryls and aralkyls of aluminium.

62851. Imperial Chemical Industries Limited. Polymer compositions. (February 8, 1957.) A composition consisting of polyethene and crystallisable polypropylene.

62852. Imperial Chemical Industries Limited. Ethylene polymerisation. (February 13, 1957.) Gaseous ethylene is brought into contact with the product obtained by treating a copper or silver compound with a hydride, alkyl or cycloalkyl of aluminium.

62853. Imperial Chemical Industries Limited. An improved process for shaping resins. [Addition to No. 60504.] Divided out of No. 60504 and antedated to May 15, 1957. Suspension containing a binding agent.

62854. W. T. Glover & Co. Limited, and Fibreglass Limited. Improvements in or relating to electric cables. (January 24, 1957.) Provided with reinforcement for lead sheath in the form of glass fibre resin laminate jacket in which glass fibre strands extend helically around the sheath.

62855. Godfrey L. Cabot, Inc. New polyolefin composition and method of manufacturing the same. Incorporating in polyolefinic resin organic peroxide and not less than 10 parts per 100 parts of resin, neutral colloidally subdivided solid filler like carbon black.

62856. Godfrey L. Cabot, Inc. Process for cross linking polymeric compounds. Subjecting mixture of polymer, carbon black and organic peroxide to action of alternating current at frequency above 2 mega cycles per second.

62857. Ciba Limited. Process for the manufacture of new 19-nor-allopregnane compounds and pharmaceutical preparations containing the same. Dehydrogenating-20-hydroxyl group of compound of type 19-nor-16 α :17 α -epoxy-allopregnane-3 β -ol-20-one to oxo-group.

62858. Ciba Limited. Manufacture of pregnanolone compounds and pharmaceutical preparations containing such compounds. Dehydrogenating 20-hydroxyl group of compound of type 16 α :17 α -epoxy-allopregnane-3 β -ol-20-on-3 β -monobenzoate to oxo-group.

62859. Ciba Limited. Pharmaceutical preparation containing new dehydrosteroid. (Divisional date 3rd July 1956.) Divided out of No. 57776 & antedated to July 3, 1956. The preparations comprise 0.005 to about 60 per cent of a 1-dehydro testosterone having in the 17 α -position a radical of the formula -CH₂-R, wherein R stands for an aliphatic hydrocarbon radical having 1-3 carbon atoms or an ester thereof and a pharmaceutical carrier.

JANUARY 16.

62860. Automatic Telephone & Electric Company Limited. Improvements in closed-chain hunting circuits. (January 19, 1957.) Comprising a plurality of stages which are connected in series and which are arranged for stage-by-stage operation until a stage is reached which is distinctively marked.

62861. Pending.

62862. Kooperativa Forbundet Ekonomisk Forening. Packing device for objects enclosed in a band provided with compartments. Packing device consisting of a band and a protective casing with an opening for the band which is folded so that pockets are obtained for the objects, characterised in that a protecting casing having two opposite walls for guiding at the same time one or several pockets, is provided.

62863. R. R. Keller. Improvements in light-diffusing structural panels. A structural building panel comprising a multiplicity of rigid frame elements having generally I-beam cross-sectional shape.

JANUARY 17.

62864. Garware Finance Corporation Private Limited. An improved thermoplastic liner for crown corks and the like. The side of the liner extends upwards and downwards to and in a bead-like section, said liner being push fitted inside a crown cork.

62865. Void.

62866. Pending.

62867. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to a method of manufacturing incandescent lamps. Binder for securing aligning flange is provided approximately on the level of the cement and heating of the binder and cement is carried out in one process.

62868. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of producing large-surface electrodes for electrolytic capacitors. Core consisting of the same metal is coated from a suspension with a layer of hydride of either tantalum or columbium.

62869. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to electric incandescent lamps. Bulb neck is surrounded by an annular cement mass by means of which two metal cylindrical parts are secured to the bulb, one part or both forming part of lamp cap or the aligning flanges.

62870. S. A. J. Liljendahl. A water closet appliance. Means enabling a vacuum to be established rapidly at the end of the plug facing outlet so that the plug is ejected in piston-like manner through outlet into discharge conduit.

62871. Ideal Industries Inc. Electrostatically insulated coiler mechanism. Comprises a driven rotary coiler head having a circular base provided with an inclined sliver tube and a coiler plate.

62872. Cognate with patent No. 61398.

62873. Cognate with Patent No. 61400.

JANUARY 18.

62874. M. M. Suri. A power transmission unit. [Addition to No. 60764.] Mechanical coupling unit incorporates partial synchronising means whereby in mechanical coupling, the speed of input shaft is reduced to approximately that of out-put shaft and thereafter positive clutches engage.

62875. Tecelmit Limited. Improvements in fluid flow control valve assembly. (January 25, 1957.) Comprising means including flexible diaphragms upon which fluid acts for relating drop in pressure of variable pressure fluid as it flows through an orifice in valve assembly to any one of the variables.

62876. Pending.

62877. Pending.

JANUARY 20.

62878. Void.

62879. P. A. Muller. Devices and methods of manufacturing tissue products formed of loose fibrous materials. Consisting at least, in part of synthetic fibres, promiscuously oriented within the web having a multiplicity of intersections formed by a synthetic fibre crossing another fibre.

62880. Württbg Spindelfabrik G.m.b.H. Drawing mechanism for spinning machines. (September 30, 1957.) Two movable cages mounted on the shaft of a twin roller are loosely coupled to each other.

62881. Württbg Spindelfabrik G.m.b.H. Brake for spinning and twining spindles. (September 20, 1957.) All parts of the brake device are mounted inside of the hinged or removable cover of housing while the operating means disposed outside.

62882. The General Electric Company Limited. Improvements in or relating to rotors for dynamo electric machines. (January 25, 1957.) Radial bore in the rotor shaft forms a passage for cooling medium whereby the part of the lead in said bore may be cooled.

62883. The General Electric Company Limited. Improvements in or relating to dynamo-electric machines. (January 25, 1957.) Stator provided with axial ducts for cooling fluid has one or more radial ducts for cooling fluid at least at the exit end of said axial passage.

62884. Societe Genevoise D'Instruments De Physique. Machine-tool or measuring machine equipped with a device causing the automatic stopping of at least one of its movable members in pre-determined positions. Having a memoir device and a photo electric reading device, the former registering positions of movable member stop positions and positions of micrometer, and provoking by a control device a speed reduction of advance of movable member and by actuating device, the positioning of micrometer, while photo electric device provokes by a control equipment the automatic stopping of movable member in desired positions which can be verified by optical measuring device.

62885. Dunlop Rubber Company Limited. Apparatus for determining the weight per unit area, or for detecting variations from a predetermined value of the weight per unit area, of sheet materials, and/or for controlling sheet material producing apparatus. (January 28, 1957.) Detecting means responsive respectively of first and second beta— or gamma— radiation sources operate a measuring means for indicating the weight per unit area of the sheet material or its deviation from a predetermined value and the second detecting means output compensates the first detecting means output for variations in the composition of the sheet material.

62886. Sigma Lutin, Narodni Podnik. An improved stator design for electric machines. Consists of a cylindrical outer sleeve surrounding inner part outer sleeve divided in three sections.

62887. Chubb & Son's Lock and Safe Company Limited. Improvements in and relating to permutation locks. (February 12, 1957.) Comprising a bolt operating lever provided with a fence, a driver engageable by the fence lever, control wheels adapted when in unique angular settings to allow engagement of the fence lever with the driver.

62888. Void.

62889. Motoren-Werke Mannheim AG vorm. Benz Abt. stat. Motorenbau. Improvements in light weight metal cylinder heads for internal combustion engines. Cylindrical portion of the collar registering on the guide projection is formed by a ring of heavy metal inserted in the cylinder head.

62890. Council of Scientific and Industrial Research. A new process for the production of 4-hydroxycoumain and its derivatives. Aromatic hydroxy or thio compound having at least one ortho position free is reacted with a malonic acid or its lower alkyl ester in the presence of a mixture of POCl_3 and anhydrous ZnCl_2 .

JANUARY 21.

62891. Societe Des Usines Chimiques Rhone Poulenc. New phenthiazine derivatives and processes for their preparation. 1-[3-(2-halo-10-phenthiazetyl) alkyl] piperazine is reacted with acrylonitrile.

62892. Canadian Ingersoll-Rand Company, Limited and Bird Machine Company. A screening device for separating solid materials in liquid suspension. Including screens, inlet, separate outlets for screened material and rejected material and device for cleaning screens, the screens being positioned in spaced relation to each other to define a slot into which such liquid is introduced.

62893. Hickson & Welch Limited. Improvements in or relating to the production of new optical whitening agents compositions containing such optical whitening agents and materials treated therewith. (February 1, 1957.) By oxidising a bis-O-amino-azo dye.

62894. Fisons Pest Control Limited. Agricultural chemical compositions (February 6, 1957.) Comprises an agricultural chemical and a polymer / copolymer of vinyl pyrrolidone.

62895. Constock Liquid Methane Corporation. Method for liquefaction of natural gas. Supplying gas at elevated temperature and pressure, removing heat to liquefy said gas, expanding the liquefied gas whereby a portion is flashed off and the said portion is separated.

62896. Imperial Chemical Industries Limited. Process for improving the water-repellency of textile materials. (February 1, 1957.) Immersing textile materials in an organic solvent solution comprising an organopoly-siloxane fluid and an organo-zirconium compound and thereafter removing the said solvent.

62897. Imperial Chemical Industries Limited. Pharmaceutical compositions. (January 30, 1957.) Comprising an active ingredient not less than 0.01 per cent. by weight of at least of one acid hydrazide of formula $A.CO.NR.NR_1$ where A stands for the residue of an organic carboxylic acid of the formula $A.COOH$, and R and R_1 stand for hydrogen atoms or for alkyl radicals.

62898. J. R. Geigy A.-G. Process for the production of tetra-acetyl mucic acid diamides. -Reacting a mucic acid diamide with acetyl chloride or bromide in the presence of an inert organic diluent.

62899. The Goodyear Tire & Rubber Company. Improvements in copolyesters. Glycol terephthalate ester is reacted with 2, 2-bis 4-(beta-hydroxyethoxy phenyl) propane, 10-70 moles of the latter being used per 100 moles of the former.

62900. The British Drug Houses Limited. Improvements in the preparation of 21-alkyl derivatives of 17 β -hydro-17 α -pregn-20-yne and pharmaceutical preparations containing the same. (January 25, 1957.) Alkylating at C_{11} position-ethyl group of 17 β -hydroxy-17 α -pregn-20-yne, with protected 17 α -hydroxyl group and the regenerating the same.

62901. J. A. Crabtree & Co. Limited. Improvements in and connected with electric switches. (February 7, 1957.) Rigid moving contact plate actuated by a cam against a spring and fulcrummed on a spring terminal.

62902. Pending.

62903. Metropolitan-Vickers Electrical Company Limited. Improvements in and relating to dynamo-electric machines having forced lubrication. (February 1, 1957.) Auxiliary winding provided in the stator of the machine, feeding a motor operating the pump for forcing lubricant through the bearing of the machine.

62904. Pending.

62905. Void.

62906. Void.

62907. Void.

62908. Davidson & Company, Limited. Improvements in or relating to axial flow fan rotors. (January 23, 1957.) Blade base has ellipsoidal contour whereby annular area of passage is decreased from rotor inlet to rotor outlet, actuating pitch of blade angles from leading to trailing edge on mean camber line of blade profile is progressively greater towards rotor outlet and pitch does not decrease from root to tip in any one plane parallel to plane of rotation.

62909. American Home Products Corporation. Improvements in or relating to dentifrices. (January 22, 1957.) Comprising 0.01 per cent. of 1:6-di-4'-chlorophenyl diguanidohexane and detergent.

62910. Metropolitan-Vickers Electrical Company Limited. Improvements in and relating to pantograph current collectors. (January 22, 1957.) Pantograph frame constructed with crossed intermediary connected rods arranged between the rotatable lever arms and supporting rods carrying the collector bar.

62911. Ciba Limited. New Benzimidazoles and a process for their manufacture. Reacting alkyl mercapto-benzyl-benzimidazole with active ester of alcohol.

62912. Swissco Sales Corporation. Improvements in or relating to expansible bracelets for wrist watches. An expansible bracelet characterised in that each of sleeve of bottom row has a projection extending lengthwise.

62913. Godfrey L. Cabot, Inc. Improvements in polymers of ethylene. Reacting a polyethylene with an organic compound having the hydrogen pervey group, -O-O-H.

62914. Void.

JANUARY 22.

62915. P. S. Subramanyam. Improvements to cottage spinning units, (consisting of spinning, carding, cleaning and roving machines). Spinning machine operated from one or both sides, carding and roving machine having arrangements to be changed over from one process to another and also having arrangements to withstand vibrating.

62916. Olin Mathieson Chemical Corporation. Process for preparing new 10-(aminoalkyl)-tertiary-alkyl-phenothiazines and their salts. Reacting 2(or 4-) tertiary-alkyl phenothiazine with compound of formula B-A-X where X is halogen, A is lower alkylene—B is basic nitrogen containing radical.

62917. Material Industriel S.A. and Constructions Mecaniques S.A. Renens. Machine for ramming the ballast of railway lines. One member connects the tool carrying arms.

62918. Standard Pharmaceutical Works Limited. Improvements relating to apparatus for delivering measured quantities of liquids. Comprising two measuring vessels, a branched connection from a storage tank to each of said vessels, another branched connection from the discharge pipe to each of said vessels, a float member suspended from the top of each vessel.

62919. Westinghouse Brake and Signal Company Limited. Improvements relating to remote control systems. (January 25, 1957.) Positions of control devices are scanned in sequence at the control office in a continuous way and proceeds simultaneously and in step with the scanning of the positions of the apparatus at the outlying areas controlled by those devices.

62920. Aktiengesellschaft Vormals Meyer-Waespi & Cie. Method and apparatus for shrink resistant finishing of knitted tubular fabrics. Laterally stretched tubular fabric held, without allowing any slip, between two endless lengths of cloth guided over a series of rollers and carry the tubular fabric along in such a manner that the fabric held between them can no longer become displaced longitudinally relative to the carrier cloth.

JANUARY 25.

62921. Void.

62922. Void.

62923. Voltas Limited. Driving arrangement in agricultural implements. Driving arrangement for agricultural implements characterised in having the wheel axle fitted within a hub, the axle carries at its end with the hub an engagement disc firmly held and in co-operation with the same is another engagement disc mounted on a driven shaft.

62924. Void.

62925. Void.

62926. Voltas Limited. A harrow. Means for applying additional downward thrust in one sector of the wheel than the other sectors so that wheel is tilted at a small angle when drawn, downward thrust causes wheel to rotate.

62927. Voltas Limited. Peanut digger. Having a cutting device with a grate at its rear end, said device being adapted to move under the soil at an acute or obtuse angle to the direction of traction.

62928. Voltas Limited. Angling device for disc plough. Ploughing disc mounted at right angles on one end of a hub and the other end of hub mounted on a flange at an angle other than right angle, the flange being mounted at end of frame of the plough and rotatably adjustable with respect to the frame, so that when rotated it causes the angle that disc makes with the ground, to change.

62929. Void.

62930. Voltas Limited. A basin planter cultivator. A scraper blade collects the soil from the trench and is raised by the kick from a lug of a rotating wheel at predetermined intervals.

62931. Voltas Limited. Angling and tilting device for blades in agricultural implements. Two clutch units each unit consisting of two discs adapted to engage each other to form a single unit.

62932. Union Carbide Corporation. Process for the production of polypropylene. Heating a mixture of monomeric polypropylene and a catalyst composed of titanium trichloride and tri-isobutyl aluminum.

62933. Renold Chains Limited. Improvements in or relating to flexible couplings. (January 28, 1957.) Means for securing the or each separately formed dog to one of the two attaching members after it has been assembled.

62934. A Gardella and C. Gardella. Improvements in and relating to sliver twisting or yarn spinning devices in centrifugal can spinning frames. (January 28, 1957.) Delivering sliver or yarn from a drafting device into a pre-twist thread guide rotating in the same angular direction as the can to impart initial twist.

62935. Plastics and Alloys Limited. Improvements in moulding composition. Comprising powdered and/or granulated or leafed metal and catalyst mixed with polyester resin containing plasticizers and fillers.

62936. Timber Box Manufacturing Company. Improvements in bobbins for textile mills. Shank is reinforced by means for reinforcement of a non-metallic material, which reinforcement is glove-fitted in the bore of the bobbin.

62937. Void.

62938. Council of Scientific and Industrial Research. A process to produce dense carbon aggregates from carbonaceous materials of varied volatile contents. Mixing crushed carbonaceous material with pitch and/or coal tar, briquething the mixture, heating the briquethes and then crushing to desired grain sizes.

62939. Council of Scientific and Industrial Research. Improvements in or relating to curing catalyst for the treatment of textile materials with amino-plast resins. Which consists of a product formed from (i) boric acid and (ii) aliphatic poly hydroxy compound having at least three hydroxyl groups.

62940. Societe des Accumulateurs Fixes et de Traction. Alkaline gas-tight counter voltage cell or storage battery and method of making the same. Constituted by two sets of alternately filed up plates with intermediate diaphragms, the plates being cut from a sheet of metal backing covered with a layer of sintered material, the two successive plates of same set united by at least one conductive strip, the strips and plate edges coated with a layer of insulating varnish.

62941. N. V. De Bataafsche Petroleum Maatschappij. Process for the catalytic desulphurization of deasphaltized heavy sulphur-containing hydrocarbon oil fractions. Desulphurization is carried out in presence of added sulphur-containing auxiliary hydrocarbon oil having a boiling range below that of heavy hydrocarbon oil fraction to be desulphurized and in presence of hydrogen gas.

62942. N. V. De Bataafsche Petroleum Maatschappij. Process for the catalytic desulphurization of heavy sulphur-containing hydrocarbon oil fractions.

Desulphurization is carried out in presence of added auxiliary hydrocarbon oil having a boiling range below that of heavy hydrocarbon oil fraction to be desulphurized and a sulphur content of at least 0.05 per cent by weight and in presence of sufficient hydrogen gas.

62943. Glaxo Laboratories Limited, and H. B. Henbest. Improvements in or relating to the preparation of steroid compounds. (February 1, 1957.) Inactivated 9 α :11 α -epoxide group or an 7 α :8 α -epoxide group of a steroid epoxy compound is reacted with an alkali metal or an alkaline earth metal.

62944. Pending.

JANUARY 28.

62945. Void.

62946. R. R. Balaguer, J. D. Hedges and Bessemer Securities Corporation. Method for molding electrically conductive articles and oven for carrying out such method. [Divisional date 9th March 1957.] Divided out of No. 59864 and ante-dated to 9th March 1957. Mix containing electrically conductive substance and a binder placed in a mould, pressed by a piston having a shape conforming to the shape of the article to be moulded while a high density electrical current passes through the mix.

62947. Void.

62948. Void.

62949. N. V. De Bataafsche Petroleum Maatschappij. Process for the preparation of liquid hydrocarbon mixtures having a high octane number, for use as a component of motor gasolines. Catalytically reforming gasolines in presence of hydrogen.

62950. United States Steel Corporation. Strip accumulator. Means for moving a plurality of strip carriers successively from the entry end to the exit end of said storage section, carriers having horizontal arm extending over latter.

62951. The English Electric Company Limited. Improvements in and relating to liquid resistance controllers. (February 5, 1957.) Comprising in combination two fixed electrodes spaced apart in an electrolyte tank and a movable insulating barrier member arranged for movement in the space between the opposing surfaces of the electrodes.

62952. British Nylon Spinners Limited. Improvements in or relating to melt-spinning. (February 8, 1957.) Fibre forming material melted, caused to flow in a continuous stream under pressure of an atmosphere free of oxygen, the level of the surface of the said fool being automatically maintained constant.

62953. Imperial Chemical Industries Limited. Improved alkali baths for metal treatment. (January 30, 1957.) Immersing the metal in aqueous alkali having floating on its surface a layer of liquid saturated hydrocarbon material.

62954. Imperial Chemical Industries Limited. Improved metabolic process for the production of gibberellic acid. During the process, the temperature of the medium is maintained within the range 27-5 to 30-5C.

62955. Imperial Chemical Industries Limited. Process for the de-oiling and desizing of textile materials containing rayon. (February 13, 1957.) Passing the materials at an elevated temperature through solvent, eliminating the solvent and passing the material through an aqueous alkaline solution.

62956. Imperial Chemical Industries Limited. Process for the manufacture of new quinolone derivatives. (February 15, 1957.) Alkylating 4-hydroxy-3-carboxy-2-alkyl or alkenyl-quinoline.

62957. American Cyanamid Company. Production of tetracycline. (October 29, 1957.) Aiding to fermentation medium a chlorine inhibitor.

62958. American Cyanamid Company. Production of tetracycline. (October 29, 1957.) Aerobically fermenting micro-organism of genus streptomyces

in aqueous medium with chlorination inhibitor like 3-chloro-6-methylmercaptopyridazine.

62959. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica, and G. de Varda. Quick starting of closed multi-cell furnace for electrolytic aluminium production. (January 27, 1958.) Multi-cell furnace for the electrolytic production of aluminium.

62960. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica, and G. de Varda. Improved furnace for the fused salt electrolysis of aluminium. A furnace for the continuous production of aluminium by fused salt electrolysis with consumption of the anodes.

62961. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of α -mercaptoamides. Treating reaction product of $(\text{alkyl})_2\text{C}(\text{Cl})\text{COOH}$ and H_2S with R halogen where R is alkenyl or alkynyl, reacting acid halide of product with $\text{H}_2\text{N-R}'$ where R' is hydrogen alkyl or alkenyl.

62962. Verenigde Aluminium En Staalconstuctie Maatschappij (Vascomij) N. V. A method for the construction of a building. Building construction by means of pre-fabricated concrete skeleton exclusively of columns and floor panels.

62963. Molins Machine Company Limited. Improvements in or relating to the manufacture of cigarettes. (January 30, 1957.) Comprising a closed passage way of predetermined cross-sectional size to compress a continuous tobacco filler.

62964. E. I. du Pont de Nemours and Company. Pulp-like masses, process for their production and shaped structures, formed therewith and head-box for carrying out the process. Subjecting polymer or unsolidified freshly formed to shearing and for heating action.

JANUARY 29.

62965. L. Vianini-Tolomei. Process and plant for the manufacture of tubular, particularly cylindrical bodies of reinforced concrete or the like. A process for manufacturing cylindrical bodies by reinforce concrete.

62966. Olin Mathieson Chemical Corporation. Preparation of cobalamins. Culturing Vitamin B_{12} —producing microorganism in cobalt-deficient nutrient medium separating cells from medium and treating these cells with utilizable source of cobalt.

62967. Olin Mathieson Chemical Corporation. Synthesis of steroids. Treating 16 α -hydroxy-androstenedione with organic sulfonating agent, reacting ester produced with alkali metal halide.

62968. Dorr-Oliver Incorporated. Apparatus for disintegrating refuse and like waste matter. (February 8, 1957.) Comprising a trough-like perforated member which receives the waste matter and through which there extends a paddle mechanism constituted by at least one scroll blade extending longitudinally between the paddle mechanism and the interior surface of the trough.

62969. Glaxo Laboratories Limited. Improvements in antibiotics. (February 18, 1957.) A composition consisting of E. 129 Factor B and E. 129 Factor Z in specified proportions.

62970. Indian Oxygen Limited. Method and apparatus for electric arc erosion. [Addition to No. 61656.] Auxiliary nozzle positioned in proximity to the replaceable shielding nozzle is arranged to direct a jet of fluid into a cut formed by the electric arc.

62971. Simon-Carves Limited. Improvements relating to supporting means for pressure vessels. (February 12, 1957.) Part of the supporting skirt which is attached to the vessel is axially slotted.

62972. The General Electric Company Limited. Improvements in or relating to chokes. (August 7, 1957.) A core having two parts separated by an air-gap and an armature to be moved along a limb of the core, the armature

being a box-sectioned member encircling the limb and adapted to be clamped rigidly thereon.

62973. West Point Manufacturing Company. Improvements in and relating to the production of unwoven fabrics. (September 9, 1957.) Fibre from alternating means is transferred by means of air current on to a moving foraminous member through a fibre transfer duct.

62974. The Geigy Company Limited. Improvements in lubricant compositions containing dicarboxylic acid esters. (February 8, 1957.) Comprising an unsymmetrical ester of a dicarboxylic acid with a saturated monohydric aliphatic alcohol and one diester of a dicarboxylic acid with a saturated monohydric aliphatic alcohol.

62975. Compagnie Auxiliaire D'Electricite et D'Entreprise. Mould for vulcanization of electrical cables. Heating resistances are sunk into the shells which are of heavy construction and are made of a material which is a good conductor of heat.

62976. Unilever Limited. Improvements in or relating to pricking machines. (February 18, 1957.) A pricking machine for pulses comprising a pin drum a pocket drum mounted for rotation about their respective axes.

62977. Dr. G. Graziadei. Process of reducing ores. Reducing ores by reducing gases which are fed to the material to be treated in the direction of movement of the material to be treated in front of the combustion zone.

62978. Void.

62979. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Improvements in or relating to the treatment of polystyrenes. (January 28, 1958.) Subjecting polystyrene to thermal and or mechanical controlled depolymerisation in the presence of a chain transfer agent.

62980. Ciba Limited. 2-aryl-3-amino-pyrazoles and process for their manufacture. (September 3, 1957.) Condensing intramolecularly N aryl N'(B Cyano-ethyl) hydrazines with oxidizing agents.

62981. Godfrey L. Cabot, Inc. Process and apparatus for pelletizing finely divided pigments. Comprising means for maintaining stirring means free from pigment deposition.

62982. Godfrey L. Cabot, Inc. Improvements in curable polymers of diverse mono-olefins. A copolymer of diverse mono-olefins and a miscible organic peroxide.

JANUARY 30.

62983. Buckman Laboratories Inc. Process for the control of iron bacteria and compositions for use therein. (October 15, 1957.) Treating industrial water with a composition containing a water soluble salt of an N-mono-alkyl-substituted dithiocarbamic acid as the active ingredient.

62984. A. Macmull. Improvements in or relating to liquid gas burners and the like. The burner body is raised to a suitable height by which incoming gas circulates.

62985. "Shell" Research Limited. Improved fuel compositions and anti-knock compositions for use in such fuels. (February 1, 1957.) A lead containing anti-knock compound doron-sulphur and phosphorus compounds are included in motor gasoline.

62986. Eastman Kodak Company. Method and apparatus for producing beadlets. By extruding fusible organic material through uniform cylindrical capillary bores into gaseous cooling medium.

62987. Eastman Kodak Company. A process for imparting a yellow colour and providing vitamin A fortification to fatty materials. Incorporating therein Vitamin A aldehyde azine.

62988. Eastman Kodak Company. Compositions containing stabilized vitamin A materials. Admixed with 2, 6-di-tertiary butyl-4-methyl phenol and tocopherol.

62989. Eastman Kodak Company. Stabilized vitamin A composition. Admixed with 2, 6-di-tertiary-butyl-4-methyl-phenol, alone or with butylated hydroxy anisole.

62990. Eastman Kodak Company. Method and apparatus for treating particulate gelatin in admixture with oil. By mixing gelatine-oil mixture with solvent for oil, removing solvent-oil and drying particulates with gas stream.

62991. J. R. Geigy A.G. A process for the separation of mixtures of metal salts. The metals are specially separated in a solution prevented from free convection in which a concentration gradient of a complex forming base is produced.

62992. Farbenfabriken Bayer Aktiengesellschaft. Process for the production of oxidation dyeings or prints. By oxidising an azomethine of an aromatic amine alone or in admixture with an aromatic hydroxy compound.

62993. Sulzer Freres, Societe Anonyme. Apparatus for controlling a forced flow once-through steam generator. Recirculating system connected to the fluid heating tubes including a recirculating pump for establishing a positive recirculation of the working fluid through the heating tubes and the recirculation system, a control device responsive to steam load and a regulating device actuated by said control device.

62994. Nitroglycerin Aktiebolaget. Process for manufacturing nitric acid esters of aliphatic alcohols. Alcohol and nitrating acid are introduced into an injector under vacuum.

62995. La Telemecanique Electrique (Societe Anonyme). Improvements in or relating to distribution boxes for electric wiring systems. (July 8, 1957.) Equipped with a cover carrying conducting members providing a knife connection between clips and the outgoing cable, each of said members is constituted by a rider carried in insulating fashion by said cover.

62996. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improved nets, lines and like fishing articles. A fishing article formed of staple yarn produced from a linear high polymer of propylene.

62997. E. O. Dryer. Quick change line blind. An annular axially expandible and contractible insert is provided in the space between spaced flanges for releasably holding blind spectacle plate in sealing engagement.

62998. Poor & Company. Rail anchor. Bar includes a vertically disposed rigidifying flange extending lengthwise of the body and a pair of diverging flanges extending from the central flange.

JANUARY 31.

62999. International Computers and Tabulators Limited, formerly known as The British Tabulating Machine Company Limited. Improvements in or relating to apparatus for interpreting an electrical wave form. Comprising means for deriving clock pulses a predetermined time delay interval after the occurrence of polarity crossovers in the waveform, means for producing clock pulses in the absence of polarity crossovers by recirculating the last derived clock pulse, means for terminating recirculation and comparing each clock pulse.

63000. Stora Kopparbergs Bergslags Aktiebolag. A method of protecting the lining of rotary furnaces when treating molten metals. Introducing cooling agent into the furnace to cut off the ways of heat-transport from the hottest region of the melt surface.

63001. Stora Kopparbergs Bergslags Aktiebolag. Method of refining silicon containing pig iron with oxygen in a rotary furnace. Refining pig iron rich in silicon by blowing with oxygen gas in a rotary furnace.

63002. Compagnie Francaise Des Matieres Colorantes. Improvements in and relating to amines. (December 16, 1957.) Reacting an isocyanate with a sulphonamide.

63003. Compagnie Francaise Des Matieres Colorantes. New metallisable azo dyestuffs and metalliferous complexes derived therefrom. (December 16, 1957.) N-(3-amino-4-hydroxy-phenyl) (sulphonyl)-N¹-alkylurea is diazotised and then coupled with a coupling component.

63004. O. Dann. Thiophene-dioxide compounds. (September 12, 1957.) 2-aryl benzothiophene is oxidised with hydrogen peroxide or a per-acid.

63005. Farbenfabriken Bayer Aktiengesellschaft. Dyeing process. August 28, 1957.) By carrying out the dyeing in the presence of an ester of a salicylic acid containing an alkyl group.

63006. Pending.

63007. Pending.

63008. The Goodyear Tire & Rubber Company. Improvements in skid warning system. Having a sensing device associated with wheel for indicating when wheel is decelerating rapidly, a brake control and an agitating device responsive to sensing device giving an indication to operator actuating brake control when wheel decelerates rapidly.

63009. Union Carbide Corporation. Core chuck. Spring blades secured on opposite sides of a rotor extend in opposite directions and a collar surrounding said rotor has slots through which the outer ends of said blades extend.

63010. Void.

FEBRUARY 1.

63011. G. M. PFAFF A.G. Stitch adjusting device for sewing machines. A link lever movable together with the lever with an engagement notch and disengagement notch so that in engagement position link lever and transmission rod are connected through a pin on transmission rod and in disengagement position they are disconnected from each other.

63012. Rena Buromaschinenfabrik G.m.b.H. Device for hectographic addressing by hand. Printing roller and felt are mounted at the case closely so that only a very narrow angle is described when case is tilted by hand from moistening into printing position.

63013. The University Court of the University of Glasgow. Improvements in or relating to the production of vaccines. (February 19, 1957.) Comprising an aqueous vehicle containing a live but attenuated metazoan endoparasite.

63014. Societe D'Electro-chimie. D'Electro-Metallurgie et des Acieries Electriques D'ugine. Method of production of trichlor-ethylene and tetrachlor (ethylene.) There is passed over a fluidised solid mass a mixture of chlorine and acetylene with an organic diluent at 350 to 450° C.

63015. Societe D'Electro-Chimie, D'Electro-Metallurgie et Des Acieries Electriques D'ugine. Chlorination of dichloroethylene. Passing a mixture of chlorine and dichloroethylene at high speed through a fluidised solid catalytic mass at 350 to 450° C

63016. Imperial Chemical Industries Limited. Multi-stage metabolic process for the production of gibberellic acid. Cultivating gibberella fujikuroi chain in two or more stages the first being for active growth and final for gibberellic acid production.

63017. Imperial Chemical Industries Limited. Improved metabolic process for the production of gibberellic acid. Adding source of carbon to nutrient medium for acid cultivation with gibberella fujikuroi during acid production stage.

63018. Imperial Chemical Industries Limited. New azo dyestuffs and textile colouration process based thereon. (February 25, 1957.) Reacting equimolecular proportions of cyanuric halide and amino azo compound of type obtained by coupling deazotised 4-nitro-4-aminostilbene-2:2'-disulphonic acid with phenol.

FEBRUARY 3.

63019. Void.

63020. Pending.

63021. Dunlop Rubber Company Limited. Method of bonding ethylene polymers or copolymers to elastomers. (March 9, 1957.) By contacting the polyethylene with the elastomer in the presence of dicumyl peroxide and subjecting the materials to heat and pressure.

63022. Morgan Fairest Limited. Improvements in or relating to labelling machines. (February 15, 1957.) Comprising a conveyor, feed means, endless carrier, labelling bars with suction openings propelling means, intermittently rotatable pick-up box, gum applying means, label stack and suction transfer pusher.

63023. Union Carbide Corporation. Sizing of textile yarn. Applying to textile material an aqueous solution containing polyethylene oxide having a reduced viscosity in acetonitrile of at least one at 30° C.

63024. Karnani Metal Fabricators and Electro Depositors. Armed Folding Chairs. The back frame is connected by a sliding link on each side to the inner side of the inverted channel shaped arms rest and the back rest is connected to the back frame by a pair of metallic links on each side.

63025. Sigma-Lutin, Narodni Podnik. Electromotoric coupling with shift-able teeth. Mechanism for shifting teeth of the coupling is mounted inside rotor of the electric motor.

63026. Sigma-Lutin Narodni Podnik. Improvements in devices for damping water shocks in pipelines. The piston of the servo motor is adapted to move inside the cylinder and is connected to a second piston provided with longitudinal slots of variable cross section.

63027. Phrix-Werke Aktiengesellschaft. Process for removal of silica from cellulose pulp. Separating long and short-fibred constituents and treating later with hydrofluoric acid and again mixed together.

63028. Metropolitan-Vickers Electrical Company Limited. Improvements in or relating to railway signalling systems. (February 4, 1957.) Electron system for the transmission of control and or indication in digital form between a control station and at least and remote station.

63029. The British Petroleum Company Limited. Process for the separation of organic compounds by elution. Continuously passing involatile liquid and eluent through an elongated zone in counter-current flow. feeding liquid mixture to said zone at one end and recovering at least one fraction having enhanced concentration of at least one component of said mixture at a point removed from the point of introduction of said mixture.

63030. C. F. Boehringer & Soehne G.m.b.H. Sulphonyl urea compounds and a method of making same. A benzene sulphonamide is condensed with an isocyanic acid ester and if desired the product is hydrolysed or reduced.

FEBRUARY 4.

63031. Void.

63032. Joseph Bancroft and Sons Company. Method and apparatus for handling and processing crimped textile fibres. Imparting artificial crimp to fibres and means for wrapping the crimped fibres into packages.

63033. Lukens Steel Company. Improvements in or relating to composite steel articles and method of making such articles. Comprising cutting in an insert a plurality of grooves which extend parallel to the side edges, terminating the groove cutting operation before reaching the side edges of the inserts assembling the insert in face to face relation with a backing plate having different coefficient of expansion.

63034. John & Joseph Taunton Limited. Improvements in and connected with collapsible lockers. (February 20, 1957.) A collapsible locker comprising

a front, back and two side panels which panels can be detachably inter-engaged.

63035. Union Carbide Corporation. Arc torch cutting process and apparatus. A stream of gas which is chemically active with respect to the workpiece, and which is prevented from contacting a stick electrode, is introduced into the outer portion of the inert gas stream passing along the stick electrode.

63036. The Singer Manufacturing Company. Feeding mechanism for sewing machines. A rock frame formed with a spaced pair of arms disposed each in engagement with feed bar to impart translatory movement to said bar and linkage for pivotal movement.

63037. Imperial Chemical Industries Limited. Process for the manufacture of new piperidine derivatives. (February 13, 1957.) Reducing 4-ketopinta-alkyl piperidine.

63038. Monsanto Chemical Company. Textured plastic materials. Comprises adding at least 0.5 per cent. upto but not in excess of 2.5 per cent. of liquid water to granules of thermoplastic resinous polymer.

63039. Void.

63040. Verenigde Aluminium En Staalconstructie Maatschappij (Vascomij) N.V. Method for the construction of a skeleton for a building. Construction of a skeleton for a building substantially consisting of concrete which skeleton consists of columns and floors.

63041. Daiwa Spinning Co., Ltd. An equipment for controlling thickness of product sliver. A sensing device such as an air micro-nozzle for sensing the thickness of the product sliver, means responsive to the variations caused in the sensing device, mean for indicating the variations thus caused.

63042. Ciba Limited. Process for the manufacture of solvent-stable σ -copper phthalocyanine. Heating phthalonitrile with copper compound and organic acid halide.

63043. Ciba Limited. Pigmented artificial resin lacquers dispersible in aqueous media and process for their manufacture. An inorganic pigment is dispersed in a lacquer containing a hardenable water insoluble etherified methylol compound of a substance of amide character and there is added an emulsifying agent.

63044. N. V. Koninklijke Pharmaceutische Fabrieken V/H Brocades-Stheeman & Pharmacia. A process for the preparation of a medicine against mental diseases. Mixing reserpine with an ortho substituted beta-dialkylamino alkylbenzhydryl ether.

63045. I. Szabo, A. Bagi, L. Edel and B. Gordos. A ground working machine, especially a plough. Rolling members which in operation have frictional engagement with the earth worked by the plough transform sliding friction to rolling friction.

63046. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of benzylamine derivatives. A benzylamine is reacted with a 3, 4, 5-trimethoxy benzoyl halide, and if desired the hydrohalide is converted into another salt.

FEBRUARY 5.

63047. Void.

63048. T. Tarukawa. An apparatus for the precise weighing of a predetermined amount of any stock-material. A weighing beam, a weighing tank provided with main and auxiliary discharge portions, a weight hung on balance beam, switches closing at upper and lower deviation of balance beam a device for charging the weighing tank and discharge devices for main and auxiliary discharge portions of the tank.

63049. T. Tarukawa. An apparatus for weighing a predetermined amount of any stock-material. A weighing beam, a weighing tank provided with a discharge portion, a weight hung on the balance beam, a switch which closes

when the beam lowers from balance portion, a device for charging the weighing tank and a discharge device for the tank.

63050. Abbott Laboratories. Method of producing a ristocetin A salt in a crystalline form. To an aqueous solution of ristocetin A salt at a pH 6-7 an acid or base is added and one volume of miscible organic solvent is added for each volume of the salt solution.

63051. Pending.

63052. L. Lesavoy. Improved machine for dispensing selected lengths of a web of either paper toweling or cloth toweling. Comprising a cabinet, a turnable measuring roll a turnable friction roll turnable connected to a cover of the cabinet, said friction roll exerting pressure on the measuring roll when the cover is in its closed position.

63053. Aktiengesellschaft Fur Unternehmungen Der Eisen-Und Stahl-industrie. Resilient floor for goods wagons or for other loaded cars. A layer of corrugated sheet steel is provided between a flat floor plate and frame work of rectangularly crossing girders.

63054. "Dihag" Deutsch-Indische Handelsgesellschaft. An improved electric switch. Provided with an extension in its central portion for holding a ball adapted to bear against and support a contact piece and two collars.

63055. Void.

63056. Contessa Corporation. Improvements in or relating to files for filing cabinets, almirahs, racks and the like. Having plate member with inverted J-type slot, secured integrally to file cover so as to suspend horizontally from filing cabinet.

63057. Messrs. Kamani Metallic Oxides Private Limited. Improvements in or relating to the manufacture of zinc-oxide. Boiling zinc metal and the combustion of the zinc vapour takes place in air of high velocity which conveys it to one or more cyclone centrifugal separators.

FEBRUARY 6.

63058. C. M. Sweet. Wattless and stepless speed regulating means for electric fans incorporating a solid-state pulsed switching device. Connected in series with the fan motor and having, adjustable phase-shifting or equivalent timing means associated with the input of the switching device.

63059. Societe Des Usines Chimiques Rhone-Poulenc. New piperidine derivatives and processes for their production. 1-phenyl-1-(2-piperidyl) methanol is acylated or a solution of a salt of an ester of 1-phenyl-1-(2-piperidyl) methanol is neutralised with a base in water or an organic solvent.

63060. Imperial Chemical Industries Limited. New pharmaceutical compositions. (February 15, 1957.) Comprising 1-methyl-6-nitro-4-quinolone-3-carboxylic acid and a pharmaceutical excipient.

63061. Aktiebolaget Electrolux. Improvements in or relating to absorption refrigerating apparatus. A defrosting device for an evaporator element which includes a conduit by-passing the condenser and leading from the vapour conduit of a vapour expeller to vapour element, a liquid trap in said by-pass conduit.

63062. Societe d'Electro-Chimie, d'Electro-Metallurgie Et des Acieries Electriques d'Ugine. Improvements in or relating to the desulphurization and desiliconization of pig iron. (June 19, 1957.) Blowing finely divided lime entrained in an inert gas laterally through the bottom of apparatus containing molten pig iron.

63063. J. C. Bajaj. Combined screw driver and aerated water capsule opener. Consisting of a single steel blade forked at one end.

63064. B. M. Kamdar. An improved hinge for soft-cum-bed. Consisting of two invented J-shaped arms E and F pivoted to each other at M and another straight arm D pivoted to arm E and J and a coil spring connecting the arms.

FEBRUARY 7.

63065. Void.

63066. Clupak, Inc. Machine for modifying the physical characteristics of webs. A rigid stationary pressure applying member having a smooth, rounded, anti-friction surface of uniform contour and means applying forces to the rigid member at properly chosen interval.

63067. Clupak, Inc. Improvements in or relating to the manufacture and treatment of uncreped stretchable web material. Web is mechanically shrunk in one or more directions at an angle to the longitudinal center line of the web.

63068. Mather & Platt Limited and N.V.P.F. Van Vlissingen & Co's Kato-enfabrieken. Improvements in multi-colour fabric printing machines. (May 3, 1957.) Comprising engraved printing rollers with small diameter backing roller opposite each engraved roller, the fabric passing through the nips of such rollers and a support roller or rollers for the backing rollers.

63069. Imperial Chemical Industries Limited. New pharmaceutical compositions. (February 13, 1957.) Comprising 1:2:2:6:6-penta alkyl-piperidine compound in admixture with a pharmaceutical carrier.

63070. Ciba Limited. New dioxo hydropyridazines and process for their manufacture. (Divided out of No. 60152 and ante-dated to April 9, 1957.) 1-aryl-4 or -5 halogeno 3:6-dioxo-1,2,3,6-tetrahydro-pyridazines and the corresponding 4,5-dihalogeno-1,2,3,4,5,6 hexahydropyridazines are prepared by combining halogen at the 4:5 double bond, and if desired splitting off HCl from the product.

63071. Cognate with Patent No. 63070.

63072. Standard Telephones and Cables Limited. Two-wire two-way time division multiplex system. Comprising a multiplex highway and a negative impedance device inserted into said high way.

63073. Standard Telephones and Cables Limited. Manufacture of strip from plastic material. (April 5, 1957.) Comprises extruding heated polythene through an arcuate die allowing the extruded channel shaped section to fall under its own weight.

63074. Standard Telephones and Cables Limited. Improvements in or relating to cold cathode switching devices. (May 17, 1957.) Discharge gap formed between cathode surrounding its anode and a means for maintaining discharge gap at large pre-breakdown ionisation.

63075. Creed and Company Limited. Improvements in or relating to facsimile apparatus. (February 26, 1957.) [Addition to No. 60297.] Any portion of message sheet which is being scanned is maintained in contact with a surface.

63076. The Cotton Agents (Private) Ltd. Treatment of molasses so as to increase sugar output from sugar bearing juices. Mixture of molasses is subjected to liming and to double carbonation.

FEBRUARY 8.

63077. N. D. Bharucha. Device for conducting electric current from a conductor to an electric locomotive or driving car. [Addition to No. 60903.] In place of conducting roller of specification No. 60903 is provided a contact piece of inverted U or like section which carries a member at its lower end, and within contact piece is fitted a bar or the like insulated from contact piece and connected to spring loading device.

63078. Onoda Cement Company Limited. A flexible connecting tube for conveyance. Provided with a reinforcing cloth piece and with or without a stretching bone in each flexibly bending part and with re-inforcing ropes at outer periphery of the tube in the longitudinal direction.

63079. The British Oxygen Company Limited. Process for the separation of acetylene from admixture with other gases. (March 5, 1957.) Wherein refrigeration to cool solvent is derived from liquid methane or natural gas.

63080. The Chloride Electrical Storage Company Limited. Improved separators for lead acid electric accumulators. (March 25, 1957.) Corrugating separator material and bringing walls of each corrugation together so as to form solid rib by adhesion.

63081. Chimie et Atomistique. Improvements in a composition for treating leprosy. Comprising thioisonicotinamide and a therapeutically administrable vehicle.

FEBRUARY 10.

63082. Void.

63083. Council of Scientific and Industrial Research. A new method for the preparation of 4-hydroxycoumarins. Treating malonic acid diaryl esters with phosphorus oxychloride and anhydrous zinc chloride at 0-110° C.

63084. Chas. Pfizer & Co. Inc. Therapeutic compositions. Comprising one tetracycline-type antibiotic and a glucosamine.

63085. Hawaiian Sugar Planters' Association and Crown Zellerbach Corporation. Process of making paper making pulp and printing paper and the products resulting therefrom. Mixture of non-woody lignocellulose and an aqueous liquor containing a sulfite compound in solution is heated and the softened lignocellulose is mechanically defibred.

63086. American Steel Foundries. Improvements in railway car truck brake arrangements. Brake frame mounted truck frame and having fulcrumed thereto a pair of brake levers connected to friction means engageable with friction surfaces, each brake lever connected to actuating lever and pair of actuating levers operated by power means through a pair of operating levers which are interconnected and also connected to actuating levers.

63087. Merck & Co., Inc. Process for preparing novel 16-alkyl steroids. 16-methyl-11-oxygenated-4-pregnene-17 α , 21-diol-3, 20-dione is contacted with microorganisms of the class schizomycete.

63088. Imperial Chemical Industries Limited. Polymerisation catalysts and polymerisation processes using them. (February 27, 1957.) Treating silicon compound containing the group H-S with a compound of transition metal occupying any of 4th to 10th places after inert gases in any of the long periods of periodic table.

63089. R. Heuberger. Improved railway axle counting system. Comprising a pair of monitors connected in oscillatory circuits and in circuit with a counting register and a monostable signal switching circuit, the latter connected to be held in the unstable condition only under predetermined conditions of the register and both monitor circuits.

63090. Glaxo Laboratories Limited. Improvements in or relating to the separation of steroid mixtures. (February 15, 1957.) Reacting mixture of 2-bromo-3-keto-4:5 α -dihydrosteroid unbrominated 3-keto-4:5 α -dihydrosteroid with substance furnishing bisulphite ions and separating water soluble derivatives by their difference in solubility.

63091. E. P. Agnides. Improvements in water aerators. Casing having water inlet and outlet, a perforate member extending across said casing between said inlet and outlet and an air inlet leading into the space downstream of said member.

63092. Mavor & Coulson Limited. Improvements relating to pick boxes for cutter chains of mining machines. (March 16, 1957.) A link component connected with link components of other pick boxes and a complementary separately made holder component rigidly secured to said link component.

63093. F. Hoffmann-La Roche & Co., Aktiengesellschaft. Process for the manufacture of a dodecahydrophenanthrene derivative. Reacting 1-vinyl-6-methoxy-3:4-dihydronaphthalene with methyl vinyl ketone.

63094. Farbenfabriken Bayer Aktiengesellschaft. A process for the production of derivatives of hyposulphurous acid. (January 15, 1958.)

63095. Lonza Electric and Chemical Works Limited. Method of purifying nicotinic acid. Passing preheated inert carrier gas over nicotinic acid heated to 200-270° C. and separating entrained acid therefrom.

63096. Centre National De La Recherche Scientifique. Improved means for intensive cultivation in arid sun-drenched regions. Comprising a piece of ground covered over with a medium conducive to culture, vertical wall around it and a roof at its top and having therein basins containing brackish water and means for collecting the condensation water.

FEBRUARY 11.

63097. Void.

63098. Void.

63099. The British Vacuum Flask Company Limited. Improvements in or relating to vacuum flasks. (February 12, 1957.) Comprising a container, a refill received by the container and a shoulder which is secured to the containers and serves to retain the refill in the container.

63100. Safca Aerosol Manufacturing Limited. Improvements relating to atomising apparatus. (October 18, 1957.) Comprising a container having a inwardly extending shoulder to constitute a support for the valve unit and sealing means operatively disposed relative to the valve unit.

63101. Societe Des Usines Chimiques Rhone-Poulenc. New Phenthiazine derivatives and processes for their preparation. [Addition to No. 59403.] An aminoalkyl substituent containing a morpholine group is introduced in the 10-position of a cyanophenthiazine by usual methods.

63102. British Telecommunications Research Limited. Improvements in control circuits for magnetic recorders. (February 20, 1957.) Two separate strobe pulses are used with the same repetition frequency but 180° out of phase, in conjunction with two toggle circuits which are adapted to be operated from the A and B control leads.

63103. Orr & Sembower, Incorporated. Pulverised fuel burner. (February 22, 1957.) Comprising a refractory lined combustion chamber an inlet for pulverised fuel means for delivering fuel through the inlet in an air stream only sufficient in amount to permit ignition and distillation of fuel.

63104. Orr & Sembower, Incorporated. Improvements in boilers. (February 22, 1957.) Combustion gases from a burner pass through main tube to impinge on a refractory thereby reversing their direction, fly ash from combustion gases are thus drop out.

63105. Orr & Sembower, Incorporated. Improvements in boilers. (February 22, 1957.) A fire tube boiler fired by pulverised fuel burner means for separating fly ash from the combustion gases.

63106. A. Wahle. Lipstick-casing. Sleeve members are arranged for longitudinal movement relative to each other, and one of said members being adapted to entrain lipstick refill upon such relative movement between sleeves.

63107. The British Thomson-Houston Company Limited. Improvements in and relating to electric traction equipments. (February 25, 1957.) Each traction motor is provided with a series excitation component and a shunt excitation component having control means.

63108. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to electrolytic capacitors. Characterized in that the surface of the cathode is covered with a sponge-like layer of one of the platinum metal.

63109. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to ferromagnetic materials. A ferro-magnetic material having a composition corresponding to 2-21 mol per cent. of AO, 5-54 mol per cent. of MeO, 52-83 mol per cent. of Fe_2O_3 , where A represents bi-valent metals, Me represents bivalent

metals like Fe, Mn or bialent complex=
$$\frac{\overset{\text{I}}{\text{Li}} + \overset{\text{III}}{\text{Fe}}}{2}$$

63110. R. Ecurseil-Prat and J. Hostench-Serra. Improvements in or relating to the mechanical doffing of spinning cops. Doffing the full cops successively in a continuous manner and donning in an analogous manner by a device sliding along a number of guides.

63111. R. E. Linnell, P. R. Linnell, T. R. Linnell, and T. E. Linnell. Improvements in and relating to the preservation of perishable commodities by refrigeration. Space between inner and outer containers filled with liquid which is frozen solid.

63112. Dr. C. Otto & Comp. G.m.b.H. Method for the degasification of pitch. Degasification of pitch at a temperature maintained at above 300° C.

63113. Void.

63114. James Finlay and Company Limited. Improvements in or relating to trolleys of the type used in the withering of tea leaf by the tunnel method. Trolly fitted with tilting holders for the trays, the holders being pivoted at their lower outside corners.

FEBRUARY 12.

63115. P. C. Jain. An improved electric water heater. Comprising two concentric electrodes from top of container, outer tubular electrode having two slits, inlet and outlet water connections at different levels in the container the electrodes being shorter than the container, means for suspending the water heater, and inlet and outlet water connections connected to bottom of container where it is perforated.

63116. Void.

63117. The English Electric Company Limited. Improvements in or relating to cartridge fuse links. (February 25, 1957.) Comprising a hollow insulating body, inner and caps secured to said body, a fuse element of sheet material extending between the inner end through the body, electrical connection being made to outer end caps.

63118. Inventa A.G. Fur Forschung Und Patentverwertung. Process for the concentration of sugar solutions. Comprising adsorption of sugar onto an anion exchanger, separation of exchanger from solvent and desorption of sugar by means of CO_2 .

63119. Tobacco Bye-Products Private Ltd. Reclamation of kerosene used as extraction solvent. Treating kerosene, after denecotinisisation with sulphuric acid, removing the solid matters and decolouring the kerosene.

FEBRUARY 13.

63120. Void.

63121. The English Electric Company Limited. Improvements in and relating to electric switchgear. (February 20, 1957.) Including a circuit breaker assembly movable horizontally relative to a fixed part of the switchgear.

63122. The English Electric Company Limited. Improvements in and relating to shrouds for electrical cable connections. (February 21, 1957.) A shroud for an electrical connection, includes a cable entry sleeve which comprises a resilient sleeve portion provided with an integral flange arranged to form a part of a wall of the shroud.

63123. The English Electric Company Limited. Improvements in and relating to electric fusegear. (February 21, 1957.) A contact assembly

consisting of two unequal U-shaped, contact members secured one within the other and a co-operating U-shaped contact member whose arms are adapted to be clamped between the corresponding arms of the two first-mentioned contact members.

63124. Cerberus G.m.b.H. Improvements in or relating to electrical alarm systems. Comprising individual alarms connected in groups to a unit, each alarm including a responsive member responsive to alarm condition to transmit an electric signal to the unit and visual indicator, in vicinity of responsive member, being electrically reversibly actuated when the alarm responds to identify the alarm.

63125. Phrix-Werke Aktiengesellschaft. Method of and apparatus for continuously producing and after-treating artificial silk threads in the form of a multiple of threads. Conducting the separate multiples of threads produced on two or more spinning machines placed in a file such that the thread multiples run to the feed roller at different angles.

63126. Asta-Werke Aktiengesellschaft. A process of preparing new chole-retically active compounds and the compounds so prepared. Endomethylene-2. 5-tetrahydro-³-benzaldehyde is reacted with a Grignard compound and the reaction product is catalytically reduced.

63127. Montecatini Societa Generale Per L'Industria Mineraria E Chimica, and Ateliers De Constructions Mecaniques De Vevey S.A. Process and apparatus for the preparation of granules of ammonium nitrate or other substances. Melted substances are formed into drops and are introduced into a cooling bed consisting of a gaseous suspension of powdery material.

63128. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Method for the purification of propylene high polymers. The polymer is freed from the solvent by steam-distillation and subsequently by leaching it with weak aqueous ammonia.

63129. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to tools for securing component parts to mounting plates for electric or electronic apparatus. Including a housing comprising two guides for the components to be secured, each guide guiding the component part at one point and the position of the mounting plate relative to the housing.

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63130. Societe Des Usines Chimiques Rhone-Poulenc. Improvements in or relating to new phenthiazine derivatives and processes for their preparation. Reacting 3-dialkylsulphamoyl-10-[3-(1-piperazinyl) propyl] phenathiazine with chloroalkoxy ethanol.

63131. Cilag Limited. Process for the production of new anilides and salts thereof, and anilides resulting therefrom. Reacting an aniline compound with a dicarboxylic acid in the presence of water splitting agents.

63132. Ethyl Corporation. Organolead compounds. (March 23, 1956.) [Divided out of No. 59102 and ante-dated to December 11, 1956.] Reacting a lead oxide or sulphide with a stable non-lead metallo-organic compound.

63133. Ethyl Corporation. Improvements in or relating to the manufacture of organometallic compounds. (June 7, 1956.) [Divided out of No. 59102 and ante-dated to December 11, 1956.] An organometallic compound having metal bonded to carbon with a metal and hydrogen is reacted with hydrogen in the presence of a metal.

63134. Societe Anonyme Des Manufactures Des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Improvements in the manufacture of fibres from thermoplastic materials. Peripheral band and/or side wall of distributing device is or are each formed of two elements in contact with each other; exterior element being of refractory material.

63135. The Wellcome Foundation Limited. Improvements in and relating to pyrimidine derivatives and the preparation thereof. (February 21, 1957.)

Formylation of hydrocinnamic ester, condensation of formyl derivative with guanidine and chlorination and subsequent amination of intermediate product.

63136. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Process for obtaining crystalline polyolefins with a higher affinity for dyes and fibres, films, tapes and like articles prepared therefrom. Grafting by heating crystalline polymer of propylene mixed 1-25 per cent. by wt. of at least one monomer polymerisable therewith, above its melting point.

63137. Trubenised Company (Registered Trust). Anti-curl device for garments. Consisting of elongated plastic sheet permanently deformed by bending along one or more longitudinal lines.

63138. Hughes Tool Company. Tunneling apparatus. Including a rotatable pilot bit mounted eccentrically of a core drill to cut away a portion of the core and means for axially advancing drill and bit.

63139. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. A process for the production of mixed polymers and the products obtained by this process. Preparing a homogeneous mixture of two or more polymers, at least one polymer being capable of cross linking and other capable of being degraded under the action of ionising radiations and subjecting the mixture to ionising radiations.

63140. Pilkington Brothers Limited. Improvements in or relating to methods and apparatus for preventing the breakage of a ribbon of glass, due to the presence of a stone, during a drawing operation. (January 27, 1958.) Comprising in the steps of retracting progressively from the ribbon normally active mobile rollers and simultaneously activating normally idle mobile rollers in the lower part of the tower.

63141. A. Holtzmann. Method of producing mortar, concrete or other building materials, and structural elements thereof. A method for preparing mortar through incorporation of material made of clay, baked in thin layers without centering.

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63142. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for dyeing fibres and foils of polymers, polyacrylonitrile or cellulose acetate. The material is treated at a temperature between about 70° C. and about 125° C. with an aqueous solution or suspension of a naphthoylene-aryl-imidazole-pri-dicarboxylic acid or a naphthaloperinone-13:14-dicarboxylic acid or its anhydride.

63143. O-M Spinning Machine Mfg. Co., Ltd. Improvements in carding machines. Comprising a stationary cover spaced from the cylinder covering entire width and a portion of the circumference, the cover being provided with granular surface.

63144. Hitachi Ship-building & Engineering Co., Ltd. Liquid circulating means in a penetration tube for the manufacture of pulp. Chip is successively treated with a chemical liquid in a penetration tube and in a cooking tube, each consisting of series of reaction tubes.

63145. Hitachi Ship-building and Engineering Co., Ltd. Improvements in a chip-digesting apparatus for the manufacture of pulp. Comprising feed cylinder, low and high pressure zones of reaction tubes with feed screw connected through rotary feeders and pipes for supply of steam a chemical liquor.

63146. Hitachi Ship-building and Engineering Co., Ltd. A penetration vessel in a digesting apparatus for the manufacture of pulp. Comprising a closed vessel having a conical perforated screen connected at its top to the exit of a chip-charging pipe and at its bottom to the inner wall of the vessel and a liquid supplying pipe.

63147. Hitachi Ship-building and Engineering Co. Ltd. Digesting apparatus for the manufacture of pulp. Screw conveyer is provided in the connecting

passage and a number of small holes are perforated in the wall of passage at its middle part.

63148. Hitachi Ship-building & Engineering Co., Ltd. A screw feeder of a reaction tube in a digesting apparatus for the manufacture of pulp. Consisting of rotating shaft with screw plate thereon, one or more additional screw plate or plates with same pitch secured on shaft, inserted between said main screw plate and other screw plate of opposite screw direction to that of main screw plate.

63149. Siemens-Reiniger-Werke Aktiengesellschaft. Rotating anode X-ray tube. Of the rotating anode type comprising a shaft on which the anode plate is mounted, two electron emitting cathodes spaced from the anode plate and two concentric target tracks of different face angles formed on the anode plate.

63150. Siemens-Reiniger-Werke Aktiengesellschaft. High tension barrier layer rectification unit. A plurality of rectifiers arranged side by side, a columns being series connected.

63151. Siemens-Reiniger-Werke Aktiengesellschaft. Improvement in or relating to high-tension barrier layer rectification units. Pile of rectifiers housed in container having slots directed longitudinally of the containers.

63152. Vossloh-Werke G.m.b.H. Improved rail attachment means for use in railway tracks. Self-tensioning stirrups engage at their shank ends in two separate recesses formed in each butt strap or rib where at least one recess comprises a slot.

63153. British-American Tobacco Co. Ltd. Improvements in or relating to a carton for packaging cigarettes or the like. End wall remote from the opening in top wall comprising a panel terminating below the top wall an end wall flap hingedly connected to the upper end of the panel.

63154. Zavody V. I. Lenina, Narodni Podnik. An arrangement for the transmission of the torque from a traction motor to the driving axle of a rail vehicle. Nave of the driving wheel, fixed to the driving axle, is provided with a tubular extension surrounding the part of the axle, close to the driving wheel, said tubular extension supporting bearings enclosed in a longitudinally divided sleeve, to which sleeve a similarly divided gear box is attached.

63155. National Malleable and Steel Castings Company. Improvements in or relating to car couplers. The portions of the walls on the knuckle side of the coupler being of greater thickness than the portions of the walls on the other side of the couplers.

63156. Titam Co. A/S. Method for reducing iron ore in rotary kiln. (Addition to No. 59199.) Reducing by solid carbonaceous reducing agent in a rotary kiln operating at sub-atmospheric pressure and heated by introduction of preheated combustible gas at discharge end and introduction of oxygen containing gas in the same direction.

63157. The Angus Company Limited. Sliver stop motion device for spinning, twisting, roving and like machines. Comprises in combination a weighted and pivotable main lever provided with a wedge-shaped scop means.

FEBRUARY 17.

63158. Void.

63159. Societe Des Accumulateurs Fixes Et De Traction (societe anonyme). Improvements in alkaline storage batteries. Constituted by parallel finely porous plates, each made of a support of agglomerated metal particles impregnated with respectively positive and negative active material; separators being arranged between said plates.

63160. American Cyanamid Company. Preparation of compounds of the tetracycline series. Catalytically reducing a 6-olemethyl-6-deoxy tetracycline in presence of a substance which is capable of forming a chelate ring with peri-dioxygenated hydronaphthaline.

63161. American Cyanamid Company. Preparation of compounds of the tetracycline series. Catalytically reducing tetracycline chlortetracycline bromtetracycline or oxytetracycline or 4a-epimer of such compounds in solvent in presence of a substance capable of forming chelate ring with a peri-dioxygenated hydronaphthalene.

63162. Societe Des Usines Chimiques Rhone-Poulenc. Process for the preparation of a new phenthiazine derivative. Diphenyl sulphide is cyclised or carbamoylphenthiazine is dehydrated.

63163. Union Carbide Corporation. Flashlight switch. (July 9, 1957.) Switch means attached to and contained in a movable switch housing which encloses a magnet mounted in receptacle movable with the switch housing.

63164. H. Mahle. Light metal piston for internal combustion engines. Distance from lowermost ring groove to about six times insert thickness is more than 2.7 p.c. of piston diameter but less than three insert thickness.

63165. C. C. Wakefield & Company Limited. Improvements in or relating to hydraulic fluids. (February 25, 1957.) Comprising mixture of blown castor oil and one or more relatively non-volatile solvents and at least one corrosion inhibitor comprising 1, 2, 3-benzotriazole or a carbonate or carbamate of a basic non-aromatic amine.

63166. S. Mittra. Improvements in or relating to pump. Impeller has at least a pair of blades such that walls of each blade form a pocket and water is thrown by pocket shaped blades to outlet opening.

63167. General Electric Company. Manufacture of sealing rings for gas turbine engines. A backing ring is lined with a lining metal.

63168. H. D. Hudson Manufacturing Company. Nozzle assembly for sprayers. Comprising nozzle assembly including nozzle holder, nozzle, a supply tube, sealing means in the bore of nozzle and camming means.

FEBRUARY 18.

63169. D. S. Joshi and V. V. Gupte. Improved opener. Consisting of feed apron, feed plate and roller lick-in-cylinder, a pair of cages, a cleaner plate, a waste chamber and a lap making arrangements.

63170. Void.

63171. J. Martin. Ejection seats for aircraft. (February 22, 1957.) Means provided for restraining the arms of the airman.

63172. Glovers (Chemicals) Limited and Council for Scientific and Industrial Research. Process for the manufacture of a surface-active compound, particularly for use in breaking water-in-oil emulsions. (February 22, 1957.) Reacting polyoxyalkylene glycol of at least 850 mol wt. with three c-atoms in oxyalkylene unit with mixture of alkylene oxides with 2-4 c-atoms.

63173. Pending.

63174. Wickman Limited. Cutting or shaping of metal articles by electro-spark erosion. (February 25, 1957.) Wherein, in the direction of feed of the electrode relative to a workpiece, a rapid vibratory motion is imparted to the work piece concurrently with the spark discharges.

63175. Gluconate Limited. Process of isolating plant alkaloids. Extracting the roots of *Rawolfia Canescens* with ethanol, concentrating the extract, and separating the alkaloid by acidification.

63176. Gluconate Limited. Process for the preparation of a sedative. Extracting plant roots with ethanol treating extract concentrate with benzene treating its extract concentrate with ether and to separate alkaloid by chromatography from ether extract.

63177. Ing. J. Bottger. Internal combustion engine with direct fuel injection and compression ignition. Fuel discharged through two jets, the shorter jet impinging beyond the wall of the combustion space either on the piston or bottom while the remaining portion hits below its edge.

63178. E. Kalimeyer. Blood pressure measuring apparatus. Having an abutment at the bottom of housing and cooperating with tap to automatically interrupt communication between mercury reservoir and measuring tube when cover of housing is closed and establish communication when cover is opened.

63179. National Malleable and Steel Castings Company. Improvements in or relating to car couplers. Anticreep means for the lock of the coupler.

63180. BYK-Gulden Lomberg Chemische Fabrik G.m.b.H. Process for the production of a tanning homogeneous crystalline water-soluble condensation product having valuable therapeutic properties. M-Cresol is sulphonated, treated with formaldehyde solution and the product is precipitated with HCl.

63181. H. Yokota and S. Yokota. Multistage self-suction type centrifugal pump. First stage centrifugal pump is constructed as a self-suction type having a lift capacity smaller in principle than that of second stage pump.

63182. Ciba Limited. Process for the manufacture of new halogenalkyl piperidines. Treating 1-hydroxyethyl-diphenylmethyl piperidines with halogenating agent.

63183. Ciba Limited. Process for the manufacture of new hydroxyalkyl-piperidines. Additively combining ethylene oxide at secondary amino group of 2-diphenylmethyl piperidines.

63184. Void.

63185. S. Stokland. Improvements in or relating to agricultural machines for use as seed planters and/or fertiliser distributors. (Addition to No. 56891.) Further upwardly diverging cup disposed for rotation within first cup the interior of said further cup being in communication with container for second material.

63186. T. C. Martin. Improvements in or relating to crushing machines used in the manufacture of tea. Having two vertical side frame or panels adapted to hold the ends of two rollers mounted in housing or blocks, clamped to the said frame.

63187. Ciba Limited. New $\alpha : \beta$ substituted β -acyl aliphatic aldehydes and process for their manufacture. Primary $\alpha : \beta$ -substituted- β -acyl-aliphatic alcohol or primary secondary $\alpha : \beta$ -substituted aliphatic β -diol is oxidised.

FEBRUARY 19.

63188. Void.

63189. Pirelli Societa Per Azioni. Improvements in or relating screened insulated electric conductors. (December 18, 1957.) Electrically semi-conductive non-metallic fabric is interposed between the insulation and the metal screen for screening an electric conductor.

63190. Magnetic Heating Corporation. Improvement relating to the removal of volatile liquids from solid dielectric material. Subjecting the material to high frequency electric field within enclosure to heat the material and condensing such vapour in condensing means.

63191. Ciba Limited. Pharmaceutical preparations containing a new active sodium eliminating substance. [Divided out of No. 58516 and ante-dated to September 27, 1956.] The composition comprises a sodium eliminating substance and a carrier.

63192. Molins Machine Company Limited. Improvement in or relating to apparatus for making mouth piece cigarettes. (February 20, 1957.) Stub-feeding apparatus comprising means to feed stubs endwise in lines, means to move each stub in turn sideways.

63193. Molins Machine Company Limited. Improvements in or relating to the feeding of webs of material. (February 20, 1957.) Comprising feeding lengthwise a web of material whose width is greater than the required width, severing the moving web lengthwise so as to separate from it a relatively narrow strip and guiding the strip into superimposed relationship with the web.

63194. Ciba Limited. Unsaturated ethers of aminotriazine formaldehyde condensation products and oxidative drying compositions containing such ethers and process for their manufacture. Reacting in presence of acid aminotriazineformaldehyde condensation product with 2-butene-1-cl.

FEBRUARY 20.

63195. N. V. De Bataafsche Petroleum Maatschappij. Process for preparing gas mixture containing hydrogen and carbon monoxide. Partial combustion at super atmospheric pressure of a hydrocarbon with oxygen.

63196. Pending.

63197. The metal Box Company of India Limited. Improvements in or relating to a method and means for sealing a can or like container. A method of sealing a can, which consists in forcing into the mouth of the said can a closure of a flexible or semistiff material.

63198. Femipari Kutato Intezet. Apparatus and process for the production of titanium metal. Reducing titanium tetrachloride with magnesium metal wherein the magnesium chloride formed is drained off from the apparatus and titanium powder is subsequently purified.

63199. Void.

FEBRUARY 21.

63200. Dunlop Rubber Company Limited. Improvements in pneumatic tyres. (February 26, 1957.) Each of the parallel cords follow a path from bead to bead the cord angle in the side wall region being in the range from 75° to 90° and in the tread region being less than 30°.

63201. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to electric switches. Containing a bimetal element capable of moving a contact and being heated by a heater connected in parallel with the contacts of the switch.

63202. Usines Decoufie. Apparatus for forming a tobacco filler in a tobacco manipulating machine such as a cigarette making machine. (February 26, 1957.) Comprising mechanism to feed tobacco to build up a continuous stream of tobacco on a conveyor, a trimming device, a perforated conveyor, and suction means.

63203. D. M. King. Improvements in or relating to conveyor chains. Conveyor chains having a link element comprising two U or J shaped parts of metal wire or strip which are relatively so disposed as to form a closed loop and are rigidly interconnected by welding.

FEBRUARY 24.

63204. E. Cartlidge. Improvements in or relating to thermo-plastic tube. (February 23, 1957.) Having adjacent and end thereof an external shoulder produced by the deformation of the tube by the insertion coaxially therein of a rigid ring.

63205. Void.

63206. Void.

63207. N. V. De Bataafsche Petroleum Maatschappij. Improvements in or relating to the treatment of a material charge by heat in a furnace, fuel for combustion in said furnace, and furnaces therefor. Fluid fuel is burned in a combustion zone and at least part of the heat transfer from the flame to the body or bodies being heated by radiation.

63208. American Cyanamid Company. Purification of tetracycline (December 16, 1957.) Acidifying the fermentation mash to a pH of 0.5—2.5 adjusting the calcium and magnesium ion content to 10—45 milligrams per gram of the antibiotics, adding a quaternary ammonium compound to the mash, adjusting the pH to 5.5-11 and adding a water-immiscible, polar organic solvent to extract the antibiotics.

63209. Fuller Company. Horizontal heat-exchange apparatus. Alternating stationary and movable grates are arranged in a horizontal series and air under pressure is admitted below the chamber through the grate to effect heat exchange.

63210. A. ODERMATT. Method for introducing rubber pins into holes provided in a leather sole for foot wear. Introducing rubber pins characterised in that a gripping member is first pushed through each hole.

63211. Olin Mathieson Chemical Corporation. A process for the preparation of a 12-oxygenated steroid. Subjecting 9(11)-dehydro steroid to action of enzymes of a microorganism.

63212. Void.

63213. Void.

63214. J. L. Bedi Pistolwala. A device for playing a game of interest. Comprising a block of pyramid shape with a continuous route or path going gradually up leading from the bottom to the top of block.

63215. Veb Zementanlagenbau Dessau. Drive for shaft furnaces grates. Two pairs of hydraulic piston rams are disposed opposite one another whereby at any given time two opposite piston rams can act simultaneously on the teeth of a driving wheel.

63216. Pending.

63217. Pending.

63218. Standard Telephones and Cables Limited. Improvements in or relating to intelligence storage equipment and to automatic telecommunication exchanges. (March 12, 1957.) Time division multiplex system serves a number of signal sources and provides a number of time division channels.

63219. Standard Telephones and Cables Limited. Apparatus for extruding a plastic coating around a wire conductor. A channel from feeding chamber extends to a channel extending axially through an extruder block member, a tapered member cut with a screw thread disposed axially in the said second channel and a die coupled to extruder block member having a tapered bore.

63220. Ciba Limited. Process for the manufacture of new acylpiperidines. Introducing an amino lower alkanoyl residue N-substituted by a lower aliphatic radical into a secondary diphenylmethyl piperidine.

63221. Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of solid dyeings and printings on cellulose material. Applying to the fibre water-soluble dyestuffs of the azo-, anthraquinone, phthalocyanine-, or nitro series containing at least one acylamino group.

63222. McDowell Company Inc. A sintering machine. Comprising in combination a means for supporting and moving pallets, a windbox hood, an air tight connection between the sealing means and the side walls of the hood, a second sealing means forming an elongated chamber outside the supporting means.

63223. Ciba Limited. Process for the manufacture of stable aqueous resin emulsions of the oil-in-water type. Extracting alcohol with solvent miscible therewith but does not dissolve resin of resin lacquer comprising water insoluble etherified methylol-compound of amide character which forms aminoplasts with formaldehyde and alcohol with 3—7 carbon atoms, and emulsifying product in water.

FEBRUARY 25.

63224. Parke Davis & Company. Method for producing heterocyclic compounds. Reacting 2-thienyl alkali compound with N-cyclohexyllidene amine under anhydrous conditions and the resulting product decomposed with water.

63225. Parke Davis & Company. Process for producing 1-phenylcyclohexylamine and its acid addition salts. Treating 1-phenyl-cyclohexane carboxamide with alkali metal hypohalite and hydrolysing the product with mineral acid.

63226. Parke Davis & Company. Process for producing mono-N-substituted 1-phenylcyclohexyl amines and their acid addition salts. Reacting phenyl metal compound with schiff base derived from $C_6H_{10}=N-R$ and decomposing the product with water where R is alkyl, aryl, alkoxyalkyl or aloxy group of up to 3-C-atoms.

63227. Parke Davis & Company. Methods for producing heterocyclic amine compounds. Reacting 1-hetracyclic amino-1-cyanocyclo-hexanol with phenyl metal compound under anhydrous conditions.

63228. Parke Davis & Company. Process for producing 1-phenylcyclohexane compounds and acid addition salts thereof. 1-phenyl cyclohexyl substituted amine is reacted with an aldehyde, ketone or an acylating agent, the product is reduced and the compound so produced is reacted, if desired, with an acid.

63229. Societe D'Etudes et de Participations Eau, Gaz. Electricite, Energie S.A. Improvements in and relating to the controlling of installations comprising at least one free-piston machine and a machine driven by power gas produced by the engine. A further controlling influence derived from the driven machine is applied to one or more control devices so that the rate of response to a sudden change is substantially increased.

63230. United States Steel Corporation. Method and apparatus for vacuum casting. Placing a mold into a chamber which is evacuated delivering a stream of molten metal into the chamber the pressure in the chamber causing the stream to violently form into an expanding cone of fine dropets.

63231. Electric & Musical Industries Limited. Improvements relating to the automatic control of machine tools. (February 27, 1957.) Comprising reading means for deriving discrete signals from a record of such signals, a contour-control signal generator for deriving from groups of said discretion signals.

63232. Hotchkiss-Brandt. Improvements in and relating to a percussion fuze. Firing means of the fuse comprises in combination with a primer carrier carrying a primer unit in two independent subunits disposed one behind the other forward of the primer.

63233. Void.

63234. Void.

63235. Hickson & Welch Limited. Process for the production of new optical whitening agents, compositions containing the same and materials treated therewith. (March 1, 1957.) Oxidising an O-amino azo-dye obtained by coupling diazotised 4-amino-stilbene-z-sulphon-cyclohexylamide with 5-amino-acenaphthane sulphate.

63236. Sony Kabushikikaisha. A transistor converter circuit for a super-autoryne radio receiving apparatus. Comprising a transistor, a local oscillation circuit connected across the base and the collector, and a tuning circuit associated with the emitter and the base.

63237. Flexi-Van. Inc. Freight handling assembly. Each trailer body has at its bottom a pair of spaced parallel longitudinally extending tracks and railway car has at its top a turntable and interlocking engagement with tracks on trailer body.

63238. Johns-Manville Corporation. Apparatus for converting molten raw material into mineral wool. The bight of the rotors and distributor roll at the narrowest point is of a width less than $1/12$ the diameter of said rotors and the distributor roll has a maximum diameter smaller than the rotors.

63239. N. V. Philips' Gloeilampenfabrieken Improvements in or relating to methods of producing new, substituted secondary or tertiary amines containing an alkoxy-benzoyloxy group. Amines containing an alkoxy benzyl group are prepared by methods known per se.

63240. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods and devices for producing semiconductor electrode systems. Systems in which a point contact or whisker is applied to a semi-conductor

body and subsequently there is passed through these parts a current of such value and for a period of time such that these parts are welded to each other.

63241. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to semi-conductor devices. Provided with a vacuum-tight envelope made substantially of metal.

63242. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods and machines for making grids for electron-discharge tubes. Winding a grid by means of stretching tongs gripping the backbones and displacing them in an axial direction so as to wind the grids with the desired pitch(es).

63243. N. V. Philips' Gloeilampenfabrieken. An acaricidal composition. Containing 0.01-80 per cent by wt. of polyhalogen-diphenyl-sulphones, -sulphoxides or -sulphides with diluent or carrier.

63244. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of tetrahydrofurfuryl ammonium compounds. By subjecting 2-methyl-3-oxo-tetrahydrofuran 5-carboxylic acid or esters thereof, to steps comprising reduction of oxo to hydroxyl and conversion of carboxy to quaternized aminomethyl.

63245. Ciba Limited. Heat-hardenable composition composed of polyvinyl chloride, epoxy resin and hardening agent. Polyvinyl chloride an epoxy resin and a hardening agent.

63246. The Mond Nickel Company Limited. Improvements relating to the formation of metallic coatings on refractory materials. (February 2, 1957.) Porous refractory material having its surface coated with metal of the platinum group, the metal is partly in the form of a coating around the refractory grains at and close to the surface.

63247. Farwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning N-sulphonyl-N'-acyl-ureas and process for their manufacture. Reacting sulphonyl ureas with carboxylic anhydrides in presence of catalyst.

63248. Ciba Limited. Process for the manufacture of new hydroxyketones. A 1:1 diphenyl-4-monocarboxylic acid halide is reacted with a compound of the benzene series containing at least one hydroxyl group in the presence of a Friedel-Crafts catalyst or the corresponding acid is reacted with the compound in the presence of a boron fluorine compound, or a corresponding ester is rearranged and a sulphonic acid or sulphonamide or a tertiary aminomethyl group is introduced into the ketone.

63249. Universal Winding Company. Winding machine for continuously advancing strands of yarn. A rotatable spindle for rotating a core, a surface carried thereon, a yarn engaging member and means for causing said member to catch yarn strand.

63250. Alamance Industries Inc. Knitted compressive tubular garment such as stockings. Made from a plurality of independent high torque lively monofilament yarns, the torque direction of said plurality of yarns in the same course being the same.

FEBRUARY 26.

63251. N. L. Rangiah. Cigarette container with built-in-lighter thereon. Comprising a conventional cigarette box, the bottom face of the top fold of the cigarette carrier is pasted with ten or more match sticks of smaller than usual size so that match sticks heads obtrude out of the flap area while adjoining downward fold is smeared with igniting paste.

63252. "SHELL" Research Limited. A mooring dolphin. (February 28, 1957.) Comprising a floating pontoon or jetty secured by gravity linkage to one or more fixed structural.

63253. N. V. De Bataafsche Petroleum Maatschappij. Combustion device for liquid and/or gaseous fuel. Comprises an air chamber and a combustion chamber and the latter is provided at the periphery with an annular slot.

63254. Pending.

63255. Marshall's Tea Machinery Company Limited. Improvements in presses. (February 28, 1957.) Comprising two endless rotatable members, means urging the rotatable members, means urging the rotatable members into contact with one another, means for rotating atleast one of the rotatable members, and one or more vibrators adapted to vibrate one or both of the rotatable members.
63256. British Telecommunications Research Limited. Improvements in or relating to amplifiers employing transistors. (March 1, 1957.) Including a plurality of step down transformers connected by way of a multi-stage transistor amplifier forming unity-current-gain matching network.
63257. Anne-Marie Jose CHARONNAT (Minor), S. CHARONNAT. P. LECHAT, J. CHARETON and A. BOIME. Process of preparation of new derivatives of methyl-4-beta-halogenoethyl-5-thiozoles. (March 1, 1957.) Treating methyl-4 β -halogenoethyl-5-thiazoles with methane polysulphonic acid, ethane mono-sulphonic acid, ethane polysulphonic acid or isothionic acid.
63258. Brevets Aero-Mecaniques S.A. Improvements in gun mountings. (March 11, 1957.) Having frictionally engageable means, controlled from a hand-grip to hold the gun mechanically on any point of aim.
63259. Dunlop Rubber Company Limited. Improvements in or relating to pneumatic tyres. (March 2, 1957.) The rubber valve base is provided with a continuous ridge surrounding the valve stem which prevents rubber from flowing from the patch during vulcanisation.
63260. Institute De Recherches De LaSiderurgie. Method for blowing pulverulent burnt lime and oxygen onto pig iron for refining same. Forming progressively a jet of pure oxygen in which is suspended pulverulent burnt lime, imparting to it a momentum per unit of time which is concentrated in the vicinity of the axis of jet.
63261. J. R. Geigy A.-G. Process for the production of D.L. α -amino-caprolactam. Reacting D. L. α -chloro caprolactum obtained by reacting caprolactum with POCl_3 , PCl_5 , SOCl_2 and treating product with water and active H_2 with salt of hydronitric acid and catalytically hydrogenating the product.
63262. J. R. Geigy A.-G. Process for the production of L(-)- α -amino-caprolactam. Splitting precipitated salt of L(-)- α -amino-caprolactam with L(-)-pyrrolidone carboxylic acid, obtained by reacting said acid with D, L- α -amino caprolactam, with stronger acid.
63263. Timber Box Manufacturing Company. An improved textile bobbin. A bobbin has its top flange formed by joining together a central wooden piece with two sheet fibre layers on its top and bottom sides respectively on the principle of tennon-mortise joints.
- FEBRUARY 27.
63264. The National Wire Heald Works (Private) Limited. Improvements in or relating to the position identification of wire healds and their manufacture. Wire heald is characterised by crimp or curve just below the top end loop so made in the wire heald that the straight centre of the wire heald body and the angle of eye remain unaltered.
63265. The National Wire Heald Works (Private) Limited. Improvements in or relating to wire healds and to methods of manufacturing them. In that part of it between its eye and its end links, the component wires lie side by side below each other in the same plane as its end loop with their adjacent edges at right angles to said plane.
63266. P. S. Mehta. A process for the preparation of a new type of tea or coffee beverage. Sugar or glucose is dissolved and boiled and tea leaves or coffee powder is added; after cooling the liquid is strained and then added household vinegar and then it is aerated, or canned by using carbon dioxide.

63267. E. Klein. Floding serving stand. Folding serving stand comprising a base having mounted thereon a substantially vertical frame, a pair of dishes, trays, plates or the like.

63268. Davidson & Company Limited. Improvements in or relating to tea rolling devices. (March 1, 1957.) Cone disposed at or approximately at table centre is provided with ports in its wall through which rolled tea leaf can flow from the table top to below it.

63269. Void.

63270. Dr.-Ing. H. Vorkauf. Water-tube boiler with a fire-tube boiler serving as steam separator. Pipe structure for the support of the water-tube heating surface serves simultaneously as support of the fire-tube boiler.

63271. V. L. Nagarkar. A device for making confectionary. Confectionary comprising a cylinder, a socket with a flange fitted at the outlet end of the cylinder.

FEBRUARY 28.

63272. Void.

63273. Veb Gluhlampenwerk Plauen. Electric bulb for vehicle search-lights. Dim-out cap is welded under an angularly bent electrode at the angular shank of which the secondary filament is connected.

63274. Dr. Ing. H. Vorgauf. Improved watertube steam boiler. Four down-comer tubes arranged at corners of boiler and interconnected at their ends by headers, with riser tubes disposed between headers, the down-comer tubes constituting supporting structure for riser tubes and connected at their lower ends with water space of drum and at their upper ends drum at a height near water level to discharge steam and water mixture.

63275. Zavody 9 Kvetna, narodni podnik. An actuating device for a gear-changing mechanism with preselector particularly for single track vehicles. Wherein the shifting forks are actuated by one or by several gear-change gates mounted on the gear-change shaft.

63276. Zavody 9, kvetna, narodni podnik. A successive gear-changing device in conjunction with a selector for motor vehicles. By one or more shifting gates on a shifting shaft, shifting forks actuating mechanism, and a selecting gate acting on shifting gates controlled at drivers choice either by a carrier connected to actuating mechanism or by a selector the gear stages, including the neutral, are engaged.

63277. Y. L. Chew. An improved carrier for cycles or the like. (March 19, 1957.) A dish-like cover having the shape of saddle a support frame with means to connect latter to the cycle frame behind at a lower level, a hinged member for swinging the cover upwardly and forwardly from horizontal position.

63278. Aktiebolaget Tudor. Electrode for storage batteries. (December 2, 1957.) Botton bar consists of electrolyte resistant insulating material and is by welding, glueing or cementing firmly attached to said covers.

MARCH 1.

63279. J. G. Kulkarni. Improvement in or relating to machines for treating fabrics with liquids for washing, bleaching padding and like purposes. Consisting rollers of a container for liquid having rotating rollers provided therein for guiding the cloth, the rollers being supported on arms to which is imparted a rapid vibratory movement upwards and downwards.

63280. J. G. Kulkarni. Improvements in or relating to dropper bars for warp stop motion. Upper edges of the teeth on its inner bar are slopped towards the U-shaped notches on either side with a gradient of maximum 30° to the horizontal.

63281. Void.

63282. J. G. Kulkarni. Improvements in or relating to dropper bars for warp stop motions. It's outside bar is made by welding together two metal strips of zigzag section each of the strips having an upper part in a different plane from that of its lower part, the planes of these two parts being parallel to, but apart from, each other.

63283. Void.

63284. Metallurgical Processes Limited, and The National Smelting Company Limited. Improvements in or relating to the blast-furnace smelting of zinc. (March 1, 1957.) In a process of smelting an oxidic zinciferrous material with coke in a blast furnace, the charge in the furnace includes iron oxides, lime and silica in such proportion that molten slag produced during smelting is of a specified composition.

63285. The English Electric Company Limited. Improvements in and relating to electrical current carrying assembly. (March 13, 1957.) In which a current carrying member is mounted on an insulating support and electrical connection is made between the member and a further conductor by a bolted connection.

63286. Imperial Chemical Industries Limited. Improved pelleting process. (March 13, 1957.) Polymer of an ester of acrylic or methacrylic acid is used as a binding agent.

63287. C. C. Wakefield & Company Limited. Improvements in or relating to lubricant additives. (March 5, 1957.) Additive comprises a mixture of zinc salts of dialkyl thiolthionophosphoric acids.

63288. International Business Machines Corporation. Improvements in or relating to expansible containers. (February 20, 1958.) Comprising two sections, one section having a main bottom panel with two side panels upstanding from the sides of said main bottom panel and integral therewith.

MARCH 3.

63289. Council of Scientific and Industrial Research. Improvements in or relating to vats for making hand-made paper. Consists of a water tank with a sieve, said sieve being capable of lifting mechanically.

63290. Mehtabuddin. Improvements in or relating to toy wheel bell. Two bells mounted on the mudguards which have two springs loaded balls, wherein one end of which springs goes into slots provided along the periphery of the wheel.

63291. Automatic Telephone & Electric Company Limited. Improvements in voice frequency signalling in automatic telephone systems. (March 26, 1957.) First D. C. impulse derived from a train of incoming voice, frequency impulses serving to take a group selector into use while all the D. C. impulses corresponding to the voice frequency train effecting the vertical setting of the group selector.

63292. Automatic Telephone and Electric Company Limited. Improvements in metering arrangements for automatic telephone systems. (March 12, 1957.) Including a plurality of registers provided by a high-speed storage device of the magnetic drum type and employed for controlling the metering of connections against calling subscribers by means of single impulses repeated at intervals which are different for different connections.

63293. S. Dodd & Sons Limited. Improved fibre cleaner. (January 7, 1958.) Conduits for conveying brash and fibres away from processing cylinder and doffing means; fibre conduit leading to a zone of lower air pressure than trash conduit.

63294. Societe D'Etudes et de Participations Eau, Gaz Electricite, Energie, S.A. Improvements in and relating to free-piston gas-generators and the automatic control thereof. In which energy is stored in a cushion during the power stroke of a piston, this energy drive the piston back on its compression stroke.

63295. General Railway Signal Company. Improvements relating to information transmission systems. Including at transmitter location apparatus for generating and transmitting A.C. signals and at receiver location apparatus for receiving and utilising the signals, apparatus at one of these locations employing transistor circuitry connected for energisation over line wires from a source of energy at the other location.

63296. United States Borax & Chemical Corporation. Condensation products of borates and glycols or glycol mono-ethers. Heating a tetraborate or metaborate of an alkali metal or alkaline earth metal with a glycol having 2 to 6 carbon atoms or a monoalkyl ether thereof.

63297. Standard Telephones and Cables Limited. Methods and apparatus for colour coding electric conductors. Making cylindrical preform of insulating material of different colour from that of main body of preform and subjecting to pressure in extrusion apparatus where it is extruded round the conductor.

63298. Void.

MARCH 4.

63299. Void.

63300. W. Borchmann. An apparatus for production and reproduction of image in natural colours. The blue filter has a transmissivity 475 m μ the green filter has a transmissivity of about 475 to 555 m μ the yellow filter has a transmissivity of about 555 to 625 m μ and the red filter has a transmissivity of about 625 m μ and above.

63301. Glaxo Laboratories Limited. Chemical compounds. (March 7, 1957.)—Void after publication. Irradiating a $\Delta^{1:4}$ -3-keto steroid in acidic liquid medium with light of wave-length below that of visible light.

63302. Glaxo Laboratories Limited. Chemical Compounds. (March 7, 1957.) Void after publication. Comprising irradiating a $\Delta^{1:4}$ -3-keto steroid in a non-acidic medium with light of a wavelength below that of visible light.

63303. Union Carbide Corporation. Film fastener. Comprises an endless wire having a larger circular loop at one end and a smaller circular loop at the other end, and an elastic ball.

63304. The General Electric Company Limited. Improvements in or relating to phosphors. Consisting alkaline earthmetal halophosphate activated by copper in cuprous state.

63305. Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of new dyestuffs. (December 12, 1957.) Subjecting 2:5-diamino-1:3:4-triazole to heat treatment in the presence of a metal compound to produce metal-containing phthalocyanines.

63306. D. B. Foster. Improvements in or relating to prefabricated buildings. Buildings characterised in that the external walls a ceiling are of double skin construction with the edges of two skins sealed to rectangular frame member.

63307. J. M. Gillott. Improvements in or relating to handling machines for coke oven doors. (March 14, 1957.) An extractor on the carriage to be aligned with door frame, a contact member on the extractor adapted to contact the oven, a valve operable by contact member.

63308. Commissariat A L'Energie Atomique. Improvements in devices for holding filters intended to stop particles in suspension in gaseous streams. Comprises two tubular sockets fixed in gastight fashions.

63309. The British Drug Houses Limited. Improvements in or relating to a method for the preparation of piperidine derivatives. (March 12, 1957.) Reacting 3-aryloxy-1:2-epoxypropene with 4-alkoxy carbonyl-4-phenylpiperidine.

63310. Usines Decoufle. Improvements in or relating to tobacco-manipulating machines. (December 18, 1957.) Means to form and feed forwardly a

tobacco stream whose cross sectional size is greater than required and a trimming device and a measuring device which also varies the cross sectional size to which the stream is trimmed.

63311. Usines Decoufle. An improved method of and apparatus for forming a tobacco filler which contains more tobacco at desired spaced positions along its length than elsewhere. (December 18, 1957.) Forming a tobacco filler which contains more tobacco at desired spaced positions along length.

63312. Robar Products (London) Limited. Improvements in or relating to pressure die-casting. (March 6, 1957.) After molten material has solidified to form a rigid shell in contact with the mould surface, the remaining unsolidified material is withdrawn from the interior of the shell.

63313. James Mackie & Sons Limited. Improvements in and relating to spinning machines. (April 5, 1957.) Providing an in-springing scraper ring at each end of each bracket.

63314. Creed & Company Limited. High speed signal recording apparatus. Arranged to record characters on a record medium, such as a tape, which is fed through the apparatus.

MARCH 6.

63315. Glaxo Laboratories Limited. Improvements in or relating to antibiotics. [Addition to No. 57982.] [Divided out of No. 59315 and ante-dated to January 8, 1957.] *Streptomyces ostreogriseus* or a mutant thereof is cultured in a liquid medium comprising oatmeal and corn steep liquor as source of nitrogen and carbohydrate respectively.

63316. Pending.

63317. Pending.

63318. Indian Lac Cess Committee. Improvements in or relating to the manufacture of dry mounting tissue paper with shellac-based adhesive. Impregnating tissue paper with natural resin based adhesive composition removing excess of the composition adhering to the impregnated tissue paper and drying the same in an oven.

63319. T. Yoshida. Slide fastener. Composed of inexpensive metal material-made elements and slider set into a cloth tape.

63320. T. Yoshida. Enamelling and desiccating apparatus for slide fastener chain. A slide fastener chain is made to pass through a guide plate having a groove for receiving and carrying the chain and proceed to the enamelling section, the chain being adjustable of its tension by a vertical movement of the bracket fixed to the frame of the machine.

63321. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Process for the production of granular high polymers of ethylene. With catalyst obtained by absorbing reaction product of halide of metal of groups IVa, Va or VIa of periodic table and alkyl compound of metal of group II or III on inert supporting material.

63322. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to apparatus and/or Method for affixing electric components. (March 7, 1957.) The apparatus including one supply station containing the components, a support for rotatably supporting a platform, a feed member and affixing means.

63323. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to pressing moulds for pressing gramophone records. Comprises an upper stamper and lower stamper having to them thin electrodeposited matrices.

63324. Societe De Prospection Electrique Procèdes Schlumberger. Improvements in shaped charges used for the perforation of walls. Charge being provided with a lining constructed by a flaring surface, characterized by the fact that the generating line of said surface is a curve.

63325. Rosan Engineering Corp. Self-tapping insert. A generally tubular body formed with internal and external threads and means to prevent collapse of the inner end of body wall.

63326. P. A. F. Baumert. Process for obtaining fluorine compounds. Melting in electric furnace fluorine containing material with amount of silicon and/or carbon containing substance to form volatile fluorine compounds of all fluorine therein.

63327. P. A. F. Baumert. Process for obtaining volatile fluorine compounds and for purifying metallic or carbide melts. Running metallic or carbide melt into mass of fluorides other than that of alkali metals.

63328. Ciba Limited. Process for the manufacture of new imidazoles and pharmaceutical preparation containing such imidazoles. Subjecting compounds like 2:5-diacetoamino-3:6 di-(diethyl-amine-ethylamino)-benzo-quinone or hydroquinone thereof to ring closure and substituting aliphatic radicals on nitrogen atoms of reaction product in known manner to form imidazole rings and N-substitute on of benzimidazol, respectively.

63329. SYNTEX S. A. Process for the manufacture of new pregnadiene compounds. Dehydrogenating 6-chloro- or 6-fluoro- Δ^4 -pregnene 3, 2-diones.

63330. Armour Research Foundation of Illinois Institute of Technology. Production of bamboo pulp and paper. The apparatus comprises a rotary drum, a myriad of short dull closely spaced teeth projecting radially from the drum surface and means for feeding bamboo culms into the drum.

63331. SYNTEX. S. A. New compounds of the pregnene series and process for the preparation thereof. 5α , 6α -oxide-pregnane-3, 20-diones, in which at least 3-oxo-group is ketalised, are treated with HCl or HF or an agent supplying these hydrohalogenic acids, then with strong acids and finally the compounds are saponified.

63332. P. E. V. A. Paren. Device for burning waste liquor. A nozzle introduces liquor in jet form into a furnace and a screen in the furnace, spaced from the nozzle such that liquor is reflected at the screen and spread in the form of droplets all over the cross-section area of the bottom of the furnace.

MARCH 7.

63333. Void.

63334. Void.

63335. S. R. Godbole. Improved take-up motion for looms. Comprising a ratchet wheel connected to the sley of the loom by means of brackets, links and levers and a guard plate provided on the loom for allowing the pawl cooperating with ratchet wheel.

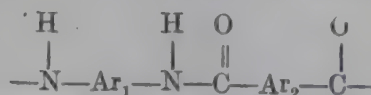
63336. Gevaert Photo-Producten N.V. Improvements in or relating to increasing the dyeability of nitrile-groups-containing polymers. [Addition to No. 56940.] Polymers are treated with hydroxylamine, an acid and a base.

63337. E. K. Cole Limited. Improvements in or relating to television receivers. (March 13, 1957.) Of the type in which an efficiency diode is employed to supply boost volts in the line time base output stage and in which A.G.C. voltage is obtained with the aid of gating pulses derived from the line time base.

63338. Standard Telephones and Cables Limited. Improvements in or relating to guides for electromagnetic waves. (March 8, 1957.) Comprising steps of winding a metal wire on a cylindrical mandrel to form a helix with successive turns in peripheral contact.

63339. Armour Research Foundation of Illinois Institute of Technology. Rice bran oil extraction. From rice bran using a solvent through a closed circuit under controlled pressure.

63340. E. I. du Pont de Nemours and Company. Shaped polyamide structures and process for their production. Shaped structures are made from a Polymer with the recurring structural unit



in which the chain extending bonds are attached to nonadjacent carbon atoms in an aromatic ring.

63341. E. I. du Pont de Nemours and Company. Polymerization process. Reacting diacid halide of dibasic aromatic acid with aromatic diamine in presence of organic acid acceptor and solvent therefor.

63342. E. I. du Pont de Nemours and Company. Polymerization process for production of polyamides. Reacting aromatic diamine with diacid halide in organic inert, partially watermiscible solvent in interfacial reaction system.

63343. E. I. du Pont de Nemours and Company. Process for improving the solvent power of poor solvents or swelling agents for difficulty soluble nitrogen containing linear condensation polymers. A solvent is applied in combination with a salt which is soluble in the solvent and which dissociates to form ions which are capable of complex formation with the polymer.

63344. E. I. Du Pont de Nemours and Company. Finishing polyester fabrics. The cross sections of at least part of the polyester filaments are deformed by the application of high pressure at elevated temperatures before the fabrics are subjected to heat-setting and alkali treatments.

MARCH 8.

63345. T. J. R. Bright. Improvements in or relating to the production of patterns and moulds for use in the production of castings, pressings and the like. Pattern being made of wax or other suitable material which melts at a low temperature and having an integral parting plate made of the same material.

63346. Ethyl Corporation. Gasoline composition. Containing at least about 1 gram of lead as an organolead antinock agent per gallon of gasoline and one or a mixture of non-ionic manganese poly-carboxyl compounds.

63347. Merck & Co., Inc. Process for preparing phosphate derivatives of dihydro vitamin K. Reacting 1-monocarboxylic acid ester of 2-methyl-3-phytyl-1, 4-naphthohydroquinone with phosphorous oxychloride.

63348. Union Carbide Corporation. System for delivering low-boiling, liquified gas material. Distributing gas material having low boiling point at atmospheric pressure, in liquified form to customer apparatus from which the material is dispensed as a gas.

63349. Hebourn-Eaton Manufacturing Company Limited. Dual fluid pump. (October 16, 1957.) A first fluid pump having inlet means and discharge means, a second fluid pump having inlet means and discharge means.

63350. Hobourn-Eaton Manufacturing Company Limited. Rotary pump. (November 29, 1957.) Plurality of pumping elements are drivingly disposal in a slotted rotor and are movable radially on an encompassing cam track constituting the peripheral wall of the chamber.

63351. I. E. S. Park. Improvements in or relating to the conveyance of freight by aircraft. Members of air frame structure extend from adjacent to the openings in the compartment and parallel tracks in the bottom of the compartment of supporting a wheeled load carrying platform.

63352. The Welsbach Corporation. Processes for the production of dibasic and monobasic acids. Ozonising the unsaturated fatty acids and subjecting the resulting ozonides to oxitative decomposition at 100—150° C.

MARCH 10.

63353. Void.

63354. Void.

63355. Mansanto Chemicals Limited. Process for the preparation of organic polysilicates and the use thereof. (March 15, 1957.) Treating organic silicate with phenol containing at least two hydroxyl groups.

63356. International Computers and Tabulators Limited formerly known as The British Tabulating Machine Company Limited. Improvements in or relating to apparatus for transferring data from a data bearing tape to a utilization device. (April 24, 1957.) The data being recorded in discrete information blocks arranged along the length of the tape, each block being preceded and followed by a recording of marker code signals.

63357. Pending.

63358. Westinghouse Brake & Signal Company Limited. Vehicle weighing mechanisms for variable load valves for fluid pressure braking systems. (March 22, 1957.) Movement of the calibrated spring due to variation of load on vehicle determines the setting of the control spring of a variable load valve.

63359. Societe Anonyme Des Manufactures Des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Process and apparatus for the manufacture of thermoplastic fibres, particularly glass fibres. The gas having a substantially homogeneous temperature and a substantially equal velocity over the whole volume of the zone.

63360. Societe Anonyme Des Manufactures Des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Process and apparatus for the manufacture of fibres, particularly glass fibres. A gaseous fluid current of high velocity and relatively low temperature acts on the emitted streamlets opposite their projection apertures and in a direction perpendicular to their emission direction.

63361. The Wellcome Foundation Limited. Improvements in and relating to quinoline derivatives and the manufacture thereof. (March 22, 1957.) An 8-substituted alkylaminoquinoline is reacted with a piperazine or a substituted alkyl piperazine is reacted with an 8-aminoquinoline and if desired the product is hydrolysed.

63362. J. Martin. Improvements in multi service connector devices for the occupants of aircraft. (March 11, 1957.) Having automatically closing valve means in various parts of the connector.

63363. H. G. Carlsen and E. A. Carlsen. Calculating machine. Comprising key assembly, carriage, means for transmitting setting motion, means for shifting carriage along its axis, feeler members, actuating means for feeler members and product mechanism having decade sections to receive motion feeler members according to setting thereof.

63364. R. Rummel. A process for the gasification of liquid fuels. (December 18, 1957.) Wherein gas produced from a liquid fuel by gasification is washed with a liquid fuel after the gas has given off part of its sensible heat.

63365. The Metal Box Company Limited. Improvements in or relating to machines for liquid-coating metal articles. (March 11, 1957.) Applying a flame to the surface, drying the surface to remove accumulated moisture and applying a liquid coating to the surface.

63366. C. E. Fulford Limited. Improvements relating to the production of senna products. (March 18, 1957.) Grinding pods and separating ground product to obtain fine powder.

63367. Void.

63368. Ciba Limited. New sulphonamides and a process for their manufacture. 3-(p-amino-benzenesulfonamido)-2-phenyl-pyrazole is N₁-acylated in known manner.

63369. Westinghouse Brake & Signal Company Limited. Improvements relating to pressure braking systems for vehicles. (March 22, 1957.) Connection of train pipe to 'load' brake cylinder is delayed upon the initiation of a brake application by a closed valve located in the connection between train pipe and 'load' brake cylinder.

MARCH 11.

63370. M. Rafiq. Improvements in or relating to cycle lock. Comprising of a pressed steel body provided with a spring loaded sliding steel bar with a notch at a central position.

63371. British Timken Limited. Improvements relating to shafts for carrying interference-fitted members thereon. (March 30, 1957.) Provided with single axial fluid supply passage from which branch passages extend to surface of shaft and control valve means in association with branch passages whereby fluid pressure can be prevented from being transmitted to surface of shaft at or through any of the branch passages.

63372. E. K. Cole Limited. Improvements in automatic gain control in television receivers. (March 21, 1957.) Of the type employing gated A.G.C. control in which noise voltages are fed to both electrodes of the A.G.C. rectifier during the gating period.

63373. Chas. Pfizer & Co., Inc. Preparation of tetracycline compounds. Treating 6-demethyl tetracycline or chlorotetracycline with hydrogen in inert solvent and palladium catalyst.

63374. Indian Oxygen Limited, formerly The Indian Oxygen and Acetylene Company Private Limited. Treatment of molten ferrous material. (March 11, 1957.) [Addition to No. 62429.] Allowing poured molten material to fall through a reaction space in contact with a stream of oxidising gas.

63375. The British Oxygen Company Limited. Work supports. (March 29, 1957.) A support member for a load, rotatable mounting means-associated with said member and means responsive to the weight of the load.

63376. Breveits Aero-Mecániques S.A. Improvements in self destruction fuzes for projectiles rotating about their axes. (November 19, 1957.) Means interposed between the member, axially slidable in the fuze body, and the fuze body for transmitting to the member, the movement of rotation of the body about its axis.

63377. Tecalemit Limited. Improvements in filter elements and the construction thereof. (March 15, 1957.) With at least one centrally apertured thermoplastic disc attached to one end of filter element.

63378. Olin Mathieson Chemical Corporation. Synthesis of steroids. Treating 11β -hydroxy steroid derivative with a hexavalent chromium compound.

63379. Imperial Chemical Industries Limited. New organic compounds. (March 22, 1957.) Void after publication. By hydrolysis of the corresponding quinolone having acylamino group or subjecting the corresponding quinolone to nitration or processes known as Hofmann and Curtis reactions.

63380. Imperial Chemical Industries Limited. New and improved compositions useful for the production of water-repellent finishes on textile materials. (March 27, 1957.) Consists of a methylolamide of a fatty acid and less than 4 per cent. by weight of free fatty acids.

63381. Imperial Chemical Industries Limited. Purification process for silver hyponitrite. (March 20, 1957.) By dissolving the crude silver hyponitrite in an aqueous solution of nitrogenous base, filtering the insolubles and progressively removing free base.

63382. Imperial Chemical Industries Limited. Ethylene polymerisation process. (March 27, 1957.) Bringing hydrocarbon into contact with titanium metal treated with aluminium halide.

63383. Unilever Limited. Improvements in or relating to dispensing containers for dispensing flowable materials by the pressure of the vapour of a liquid propellant. (March 20, 1957.) Comprising a dispensing valve, a receptacle containing a liquid propellant, and means communicating the propellant vapour, the arrangements such that passage of liquid propellant into Container is prevented.

63384. Societa Farmaceutici Italia. Process for the synthesis of 5-hydroxy-7-methyl-s-triazole (4, 3-c) pyrimidines. Reacting 2-hydroxy-4-methyl-6-hydrazinopyrimidine with a carboxylic acid, acid chloride or acid anhydride and the 2-hydroxy-4-methyl-6-acyl-hydrazino-pyrimidine so formed is cyclised by heating.

63385. Void.

63386. Ciba Limited. Manufacture of new thio-alkane-carboxylic acids and functional derivatives thereof. Attaching carboxymethyl group carbonyl group of a thio-alkane ketone.

63387. Void.

63388. Elektro-Thermit GMBH. Grinding machines for the machining of rails true to profile. Machines equipped with running or sliding means are provided with lateral guide means.

63389. Bundy Tubing Company. Push rod structure and method of making same. An end piece fastened to an open-ended portion being adapted to operably engage a member of the machine.

MARCH 12.

63390. Void.

63391. Schering Aktiengesellschaft. N-acy derivatives of (3:5-diamino-2:4:6-triiodobenzoyl)-amino acids and X-ray contrast media containing the same. 3:5-dinitrobenzoylating amino acid corresponding to (3:5-diamino-2:4:6-triiodobenzoyl)-amino acid acylating reducing, 10 divating acid acylating reaction product in chain.

63392. Pending.

63393. The General Electric Company Limited. Improvements in or relating to electric lighting fittings. (March 14, 1957.) Comprising light-transmitting primary enclosure containing major part of lamp envelope, at least one end of the envelope projecting so that in free air it is subject to greater cooling than is the part of envelope within enclosure whereby part of envelope outside enclosure is at low temperature than is any part of it within the enclosure.

63394. Heinrich Koppers Gesellschaft mit beschränkter Haftung. Process for the purification of crude benzene. In the catalytic pressure refining of crude benzene by a mixture of hydrogen, CO and steam gas, the CO contained in the circulating gas is wholly or partially removed after it has been cooled to below 100° C.

63395. The Patent Tiffin Carrier Sanghvi Co. Thermally insulated container for food or like purposes. Comprising an open mouthed outer shell or casing having a flange projecting inwardly from its mouth, a rimmed vessel supported by a ring which in turn supported by said flange.

63396. General Electric Company. Fuel system for gas turbines. Pressure responsive variable orifice through which fuel must flow to first portion of total number of nozzles and means for varying the size of the orifice in response to and as a function of variations in power requirements, are provided.

63397. General Electric Company. Gas turbine nozzle assembly. The assembly is supported by the upstream edge of the outer annular member which is spaced inward from the turbine casing on pins.

63398. Mrs. Kamla Gupta. Improvements in or relating to gear pumps. A vertical driving shaft entering a gear box, the former carrying a gear wheel which driving an intermediate driving shaft installed within said gear box.

63399. Fairbairn Lawson Combe Barbour Limited. Improvements in spinning or like machines. (March 13, 1957.) Having a main motor, a traverse motor and a doffing motor together with suitably disposed limit switches with or without over-riding manual control switches.

MARCH 13.

63400. Monsanto Chemicals Limited. Process of graft polymerisation. (March 19, 1957.) A dispersion of long chain organic material containing carbon hydrogen bonds is treated with a chemical polymerisation initiator to induce active centres in the trunk of each molecule of the material and a monomer capable of radical-addition polymerisation is then introduced for graft-polymerisation on the active centres.

63401. Oerlikon Machine Tool Works Administration Co. Cooled burner designed for shielded arc welding and cutting of metals. Metallic jacket forms at least the outerwall of at least one chamber for the longitudinal passage of the coolant, the chamber extending with at least part of its length over the front end of the longitudinal ducts provided in the core Bice.

63402. The Singer Manufacturing Company. Work feeding mechanism for sewing machines. Comprising a weed bar extending lengthwise within the confines of the work carrying bed, complemental bearing means on the feed-bar and on the frame.

63403. ZAVODY, V. I. Lenina, Narodni Podnik. Electric regulating drives of centrifugal separators using electric asynchronous motors. Provided a braking device controlled mechanical brake energised over a regulating transformer or regulating resistance by the rotor potential and rotor frequency.

63404. Montecatini Societa Generale Per L'Industria Minearia E. Chimica and K. Ziegler. Process for preparing crystalline high polymers of olefins. Olefin is brought into contact in the gaseous phase with a solid catalyst obtained by reaction of a solid compound of a transition metal of the 4th to 6th groups of the periodic system with a metals-alkyl compound of a metal of the 1st to 3rd groups of the periodic system.

63405. Metropolitan-Vickers Electrical Company Limited. Adjustable bearing mountings. (March 15, 1957.) A bearing mounting member supporting a bearing housing, a horizontal face on member located beneath the housing and vertical faces on said member at each side of the housing.

63406. J. B. Fermor-Hesketh and T. J. Gilbert. Improvements in and relating to electric switch gear. (March 15, 1957.) Contact element comprising two parts held together in movable relationship, one of said parts being formed with a cylindrical channelled recess in which is seated a part-spherical abutment of the other part.

63407. F. V. Tetterode and J. D. Grull. A method of strengthening sheet glass. Subjecting the surface of the glass to the action of an etching liquid.

63408. F. P. Research Limited. Improvements in or relating to artificial fibres. By extruding through a spinneret a viscous solution containing protein and at least one polysaccharide having strongly acidic side groups and coagulating the same.

63409. F. P. Research Limited. Improvements in and relating to protein compositions. The composition comprised a protein fibre and a binder consisting of a complex of a binder protein and a polysaccharide.

63410. F. Litzka. Method and apparatus for the manufacture of deeply-webbed girders. (March 3, 1958.) Characterised in that the web of the H-section girder is separated along a periodical line corresponding to the tooth profile of a racked bar by means of a separating device.

MARCH 14.

63411. Imperial Chemical Industries Limited. Mixing apparatus and polyurethane manufacturing process employing same. (March 22, 1957.) Comprises a reservoir zone in to which some or all of the ingredients to be mixed are fed, and a mixing zone.

63412. Cromelite (India) Private Ltd. Folding chairs. The back frame is connected to the rear legs by pivotally mounted links above the lower ends of rear legs and is also pivotally connected to the arms rests and the seat frame respectively.

63413. C. A. Arenas. Improvements in or relating to pumps. Piston assembly consisting of a piston block a multiple of axial water transfer ports in said block, a flapper made of rubber or like material held against upper face of piston block.

63414. C. O. Hoover. Improvements in or relating to method of preventing corrosion of metallic petroleum refining apparatus and composition therefor. Comprising aqueous alkaline solution of ammonical copper carbonate complex.

63415. D. M. King. Improvements in or relating to conveyor systems. (March 18, 1957.) Wherein the pusher and/or retainer dogs are so supported as to be capable of projective and retractive movements relatively to the chain into and from an operative position of load carrying trolleys.

MARCH 15.

63416. Void.

63417. Chas. Pfizer & Co, Inc. Therapeutic compositions. Comprising 4-(4-diethylamino-1-methyl butylamino-7-chloroquinoline with an anti-inflammatory steroid.

63418. American Cyanamid Company. Synthesis of peptides. Reacting an N-tertiarybutyloxycarbonyl derivative of an amino acid or of a peptide with an amino acid ester or a peptide ester, and subjecting the reaction product to cleavage to remove the blocking group.

63419. Imperial Chemical Industries Limited. Treatment of leather with polymeric compositions. (March 29, 1957.) Impregnating leather with polyesters or polyesteramides in the presence of poly-functional isocyanates.

63420. Pending.

63421. R. B. D. Valenzuela. Improvements in and relating to the production of pre-stressed reinforced concrete. Comprising a first phase of initially tensioning each reinforcement component and then anchoring such reinforcement component to a tensioning device.

63422. Pending.

63423. NSU-Werke Aktiengesellschaft. Improvements in internal combustion engines of the rotary piston type. Comprising two rotors with parallel axes which rotate inside the other in the same direction but at different speeds, the outer rotor running at a higher speed.

63424. Nikunja Behari Das Gupta. Mechanical propeller for a boat. Revolution of propeller is effected by means of one or more pairs of gears, driven gear being fitted with revolving shaft and driver gear with handle or link and lever arrangement.

MARCH 17.

63425. Void.

63426. Synthetic Moulders Limited. Improvements in or relating to cones for winding threads. Moulding cones for threads from a mould the core of which exactly represents the spindle portion on which the cone is meant to fit.

63427. Void.

63428. Automatic Telephone & Electric Company Limited. Improvements in pulse counting circuits. (March 29, 1957.) Bistable elements so arranged that stable condition represented by conduction of first transistor of any one of said elements defines state of count in which first transistors are provided with common resistance emitter load connected to source of potential and value of the load and potential source such that if first transistor of one of the elements conducts at a time when another of said elements is in stable condition, resulting change of potential at common emitter connection is sufficient to prevent said one element adopting stable condition.

63429. Automatic Telephone and Electric Company Limited. Improvements in circuit arrangements employing magnetic cores. (March 27, 1957.)

Each core being provided with an input coil and a transfer coil, the transfer coil on one core being connected to the input coil of the next core by a coupling circuit, a source of stepping pulses being connected to the coupling circuits.

63430. Les Usines De Melle (Societe Anonyme). Process for continuously carrying out catalytic reactions in the liquid phase. Catalytic reaction in a liquid phase in the presence of a solid catalyst maintained as a suspended bed in an upflow of liquid, is effected in a zone having an upwardly increasing cross-section.

63431. Fisons Pest Control Limited. Herbicidal compositions. (August 31, 1956.) [Divisional date 8th May 1957.] Comprises a mixture of 2:6-dichlorobenzoic acid or Salts and at least one hormone weed-killer compound.

63432. Fisons Pest Control Limited. Herbicidal compositions. (September 3, 1956.) [Divisional date 8th May 1957.] Comprises a mixture of 2:3:5:6-tetrachlorobenzoic acid or salts and at least one hormone weedkiller compound.

63433. Imperial Chemical Industries Limited. Process for the manufacture of polyisocyanate compositions. (March 29, 1957.) Polyamine compositions obtained by condensing formaldehyde with a mixture of at least two aromatic amines is phosgenated and, if desired interacted further with phenols or acetoacetic esters.

63434. Imperial Chemical Industries Limited. New colouration process for textile materials. (April 10, 1957.) A paste comprising an organic amino compound and a thickening agent is applied on the textile material and a solution of a reactive dyestuff is subsequently padded on the material.

63435. Societe Des Usines Chimiques Rhone-Poulenc. New phenothiazine derivatives and processes for their preparation. 10-alkyl piperiziny phenothiazines substituted in the 3-position by acyl or alkoxyl carbonyl group or a cyano, methylthio, methane sulphonyl or dimethyl sulphonyl group are prepared by conventional methods for the preparation of phenothiazines.

63436. The General Electric Company Limited. Improvements in or relating to motor-generator sets. (March 21, 1957.) Comprising a d.c. generator driven by an a.c. motor arranged during normal operation of the set to be connected to an a.c. supply and switching means adapted during starting up of the set to disconnect the motor from the a.c. supply and to connect the d.c. generator to a d.c. supply so as to act as a motor.

63437. Chloride Batteries Limited. Improvements relating to tubular type plates for electric accumulators. (March 28, 1957.) In which the tubes are woven, knitted or braided of a yarn formed from a polyester resin of terephthalic acid and ethylene glycol.

63438. E. Colombo, G. Campanini and E. Rossanigo. Machine for transplanting rice and the like seedlings. A sledge to be shifted over ground in a predetermined direction, a container carried by said sledge over it and adapted to contain heaped up seedlings extending the roots facing rear end of the sledge.

63439. Vitagen Corporation. Coffee Concentrate process. Comprises contacting roast ground coffee with hot water to extract an aqueous concentrate from the same.

63440. United States Pipe and Foundry Company. Improvements in or relating to pipe joint. [Addition to No. 60489.] The use of (elongated annular homogenous gasket) material in both axial parts of the joints structure.

63441. Vitagen Corporation. Gas generating method and apparatus. Method being carried out by use of apparatus comprising a combustion chamber having a refractory lining providing an inner catalytic surface together with a fuel burner.

63442. T. Nomura. Improvements in or relating to circuit for secrecy of conversion in telephones. For secrecy of conversation employing a condenser, a relay and an electromagnet and the circuit is coupled in shunt or series

with the telephone line near the line terminals of each of the sub-station circuits on the same party line.

63443. N. Prasad. Waste not tap. Fulcrumed cam lever within the housing and adapted to operate the spring loaded spindle of the valve arrangement and an operating lever.

63444. National Malleable and Steel Castings Company. Improvements in or relating to coupling device for railway vehicles. Comprising unlike and alternatively used couplers connected in end-to-end pivoted relationship, one of the couplers normally occupying a rearward operative position with respect to the other.

63445. Montecatini Società Generale Per L'Industria Mineraria E Chimica. Process for grafting polymeric chains on manufactured articles consisting of linear propylene high polymers. Immersing a body formed of a solid, highly crystalline polymer of polypropylene in a radical polymerisation initiator dissolved in a solvent.

63446. T. Yamura. Telegraphic receiving apparatus. Of the multistep type wherein a certain number of the typed marks will have a common part mark and in which the shifting and the operating movement of the function lever corresponding to such common mark are correlated.

63447. Voigt and Haeffner, A. G. Improvements in or relating to welding. Incorporating means which participate in the feeding movement during welding and which are returned to their starting portion after welding.

63448. E. I. du Pont de Nemours and Company. Composite yarn. A composite yarn comprising a plurality of strands of at least two different materials one of the strand materials having the property of being spontaneously and irreversibly extensible.

63449. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the production of 4-sulfanilamido-2, 6-dimethoxypyrimidine. By reacting 4-amino-2, 6-dihydroxypyrimidine with phosphorus oxychloride and demethylaniline, refluxing the product obtained with alkali metal methoxide and then condensing it with a 4-substituted-benzene sulfonyl halide.

63450. Egen Electric Limited. Improvements in or relating to aerial isolators. Of the type comprising an assembly of two capacitors with connections such that when the isolator is connected in an aerial lead of the coaxial cable type, one capacitor is serially connected with the cable screen and the other with the central conductor of the cable.

63451. Geo. W. King Limited. Improvements in or relating to electrical switch units and reversible controllers comprising such switch units. (March 22, 1957.) Comprising fixed contacts movable contact means, toggle linkage coupled to movable contact means, push button device and lever means interposed between push button device and toggle linkage.

63452. P. E. Bessiere. Improvements in self-regulating reciprocating pumps, and in particular in internal combustion engine fuel injection pumps. Auxiliary piston after a first portion of its return stroke where it forces liquid to flow through a throttled portion of a conduit causes the section of flow of liquid delivered by itself to increase whereby the speed of the shuttle is suddenly increased.

MARCH 18.

63453. Void.

63454. Void.

63455. American Cyanamid Company. Preparation of compounds of the tetracycline series. Accepted on 10th September 1959. Aerobically fermenting a chloride-ion containing aqueous nutrient medium with a strain of *Streptomyces aureofaciens*.

63456. American Cyanamid Company. Preparation of compounds of the tetracycline series. Catalytically reducing 5a(11a)-dehydrotetracycline until 2

moles of hydrogen have been absorbed per mole of 5a (11a)-dehydrotetracycline.

63457. American Cyanamid Company. Preparation of compounds of the tetracycline series. Aerobically fermenting aqueous nutrient medium with a micro-organism of the species *S. aureofaciens* in presence of corresponding 5a (11a)-dehydrotetracycline.

63458. Chas. Pfizer & Co., Inc. Preparation of 6-deoxytetracycline antimicrobial agents. Reacting tetracycline compound or derivative with hydrogen under acidic conditions and in presence of inert solvent a noble metal catalyst.

63459. Chas. Pfizer & Co. Inc. Process for the preparation of diamino-pimelic acid. Cultivating a strain of *E. coli* ATCC 13002 in an aqueous nutrient medium.

63460. Societe Des Usines Chimiques Rhone-Poulenc. New phenthiazine derivatives and process for their preparation. By introducing a substituent grouping into the 10-position of a phenthiazine derivative by methods known for the conversion of phenthiazine into corresponding 10-aminoalkyl-phenthiazines.

63461. Merk & Co., Inc. Process for producing crystalline monosodium novobiocin. Novobiocin acid is dissolved in an organic solvent mixture comprising an alcohol and an aromatic solvent, the solution is treated with sodium methoxide and the monosodium salt is recovered.

63462. Westinghouse Brake & Signal Company Limited. Automatic slack adjusting mechanism. (March 20, 1957.) A driving member, a longitudinally movable but non-rotatable driven shaft to which movement of the driving shaft is transmitted.

63463. Westinghouse Brake & Signal Company Limited. Improvements relating to variable load valves for vacuum operable vehicle braking systems. (March 22, 1957.) Single flexible diaphragm is replaced by a damper of the kind sealed by upper and lower diaphragms which act in unison as a single controlling diaphragm of the variable load valve.

63464. TECALEMIT LIMITED. Coupling for plastic tubes. (March 29, 1957.) Holding the section of the tube gripped at longitudinally spaced points between inner and outer members.

63465. Carrier Corporation. Apparatus and method for fabricating finned tubing. Winding a folded ribbon about the tube with the fold adjacent the tube, straightening and spacing the ribbon on the tube and separating the folded sections of the ribbon to form helical fins on the tube.

63466. Union Carbide Corporation. Apparatus for dispensing gas material. Heat insulated containing for dispensing in gaseous form a low boiling gas material in liquefied form, saving a vapourizer, a liquid withdrawal means, a gas phase withdrawal arrangement, valve arrangement for both the liquid and gas withdrawal means.

63467. Amco Industries. Improvements in or relating to containers for, and methods of, packing cosmetic preparations and like articles. Combining an inner cardboard or plastic box having at mouth transparent seal, inlet opening at bottom outer shell with inner flange on top for tight fitting the box.

63468. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to semi-conductor barrier layer systems provided with vacuum-tight envelopes and methods for producing such systems. Semi-conductive system is provided within its envelope a depot of water in the bound state.

63469. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to low-pressure mercury vapour discharge tubes. At least one extension of the wall projecting outwardly from the tube containing mercury, which extension is disposed between the electrodes and the radial dimension of which exceeds 20 per cent. of the tube radius.

63470. N. V. Philips' Gloeilampenfabrieken. Acaricidal compositions. Comprising 2, 4, 4'-trichloro-diphenyl sulphone together with a diluent or carrier.

63471. L. G. Castangia. Improvements in or relating to trousers and like garments. (January 2, 1958.) In trousers, each front panel lining has at least a portion thereof of width smaller than the width of the corresponding portion of said front panel of the tubular leg.

63472. Ciba Limited. New Copolymers from ethylenically unsaturated monomers containing a tertiary or quaternary nitrogen atom and from N-substituted acrylic acid amides, process for their manufacture and aerosol hair spray preparations containing such copolymers. A derivative of a copolymerisable aliphatic acid is polymerised with an N-substituted acrylic acid amide and if desired with another ethylenically unsaturated compound.

63473. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of substituted 2-oxo-benzo-quinolizines. Condensing carbalkoxymethyl tetrahydroisoquinolines with acrylic acid esters or halopropionic acid esters.

63474. Pending.

63475. Metropolitan-Vickers Electrical Company Limited. Improvements relating to electrical apparatus embedded in moulded insulation. (March 19, 1957.) A cavity which is lined with conductive material providing or connected to a contact part located adjacent the inner end of the cavity and itself connected to the embedded apparatus, together with a plug of insulating material designed for removable insertion into the cavity and providing accommodation for a fuse surrounded by the plug material.

63476. Union Carbide Corporation. Thermal treatment of high density polyolefins. Heating polyethylene in the absence of oxygen at 300 to 475° C. for 10 to 600 seconds.

63477. Bancroft-Brillotex International S.A. Process for cleaning dirty wool and other fibres. Rubbing together the fibres to be cleaned with palpable particles of cereal grain until said particles adsorb and absorb undesired from the said fibres and then forcing the palpable material from the fibres.

MARCH 19.

63478. Imperial Chemical Industries Limited. The polymerisation of ethylenically unsaturated compounds using mixed anhydrides as catalysts. (April 1, 1957.) Polymerising ethylenically unsaturated compounds in presence of mixed anhydride $R-o-e-o-N=N-o-c-o-R'$ when R, R' are alkyl, cycloalkyl or hetro-cycloalkyl groups.

63479. Imperial Chemical Industries Limited. Improvements in or relating to the manufacture of polymeric sheet materials. Forming porous sheet by compacting polymeric powder between rolls removing static electricity therefrom and then heating.

63480. The Distillers Company Limited. Cobalamin-peptide complexes. A cobalamine-containing product is degraded by treatment with cyanide ions, proteolytic enzymes or by heating or maintaining at acid pH value.

63481. Dr. J. Drescher. New vaccines and process for preparing the same. Agitating at 0-30° C. 10^6 — 10^9 of antigens viruses, or bacterial or toxius produced therefrom per 2-20m² surface of metal oxide dispersion of molar surface 40,000—80,000m² with buffering materials.

63482. Biogena narodni podnik. A method of manufacture of bacteriophages in solid dry form. Bacteriophage is cultivated in a deep tank in a hydrolysate nutrient medium containing the corresponding microbe.

63483. Dr. Beck & Co., G.m.b.H. Method of producing a highly heat resistant varnish. (November 13, 1957.) Mixture of glycerine and glycol re-esterified with terephthalic acid dimethyl ester, to leave an excess of hydroxyl groups, followed by further reaction with terephthalic acid and a third reaction stage to polycondensation.

63484. A. A. Stonehill and H. F. Zoller. Anticontamination package assembly for surgical supplies. Package comprising a container having an opening and a readily removable, closure sealing said opening, said closure further being arranged to cover and seal the exterior surface of the container adjacent said opening.

63485. K. Haridasulu. An attachment for weaving contrast borders in power-loom. A source of weft supply for borders, pulleys for guiding and tensioning the said yarns and an extra heald interposed between the border yarns and ground yarns.

63486. Godfrey L. Cabot, Inc. Process and apparatus for producing continuous lengths of shaped articles from a plastic composition. Flowing composition through a passage of approximate cross-sectional shape desired in the finished article, raising temperature in the passage to an active, high speed curing temperature, adjusting flow rate and rate of heating.

63487. Void.

MARCH 20.

63488. Void.

63489. May & Baker Limited. Improvements in or relating to pharmaceutical compositions. Comprises as active ingredient a piperidine compound in association with a pharmaceutical carrier.

63490. May & Baker Limited. New therapeutically active piperidines. (March 22, 1957.) Alkylating 1:2:6:6-pentamethyl piperidine to convert the=NH radical to=N-alkyl radical.

63491. Styrene Products Limited. Process for the preparation of expandable thermoplastic material and process for making porous articles from said material. (March 22, 1957.) Subjecting pellets of thermoplastic material impregnated with foaming agents to pressure to bulk density of 0.8 to 0.32 Kg/1.

63492. E. Uher. Automatic variable speed drive. Comprising a V-belt transmission of the type in which axial displacement of a pulley flange between two extreme positions causes continuous variation of the transmission ratio, means to drive V-belt means to drive rotatable shaft from V-belt transmission.

MARCH 21.

63493. British Telecommunications Research Limited. Improvements in or relating to telecommunication systems. (March 13, 1956.) [Divided out of No. 58752 and ante-dated to October 27, 1956.] Including a plurality of exchanges in each of which the extension of connection is effected under the control of a register device of the magnetic drum type.

63494. British Telecommunications Research Limited. Improvements in or relating to telecommunication systems. (March 13, 1956.) [Divided out of No. 58752 and ante-dated to October 27, 1956.] Including a plurality of exchanges in each of which the extension of connections is effected under the control of a high speed register device such as a magnetic drum.

63495. The Dow Chemical Company. Method for etching the surface of a metal object and etching bath. Repeatedly impinging upon the metallic surface, an aqueous solution which contains from 1 to 25 per cent. of HNO_3 , a water immiscible organic liquid, between 0.4 to 2.0 per cent. of a component which includes a water-soluble anionic, sulfate-radical containing surface-active agent.

63496. Union Carbide Corporation. Electric arc welding. [Addition to No. 57140.] A magnetic welding composition containing 12—40 per cent. of an inorganic compound is introduced into the shielding gas stream.

63497. Universal Oil Products Company. Improvements in and relating to the alkylation of aromatic hydrocarbons. Alkylatable aromatic hydrocarbon, an olefine-acting compound, and BF_3 are reacted together in the presence of BF_3 -modified refractory oxide.

63498. Director, Indian Institute of Science. A fluid measuring meter. Velocity of the fluid at inlet to bowl is adapted to be higher than velocity of water leaving the exit of bowl.

63499. General Motors Corporation. Free piston engine starter. A two position control valve connects expansion chamber alternatively with the suction and discharge passage of a fluid pump.

63500. C. W. Cheney and Son Limited and C. W. Cheney. Improvements relating to hasp fastenings for travel cases and like boxes. A hasp member is provided with spaced coaxial bearing for the hinge pin said knuckle being received in a central gap in the attachment plate and aligned coaxially with end bearing.

63501. Void.

MARCH 22.

63502. Daver and Company. Protectors for the roving bobbins of spinning machines designated the "Fly catcher". Comprising a conical shaped covering whose apical portion fits the top part of the roving bobbins.

63503. Void.

63504. Brown and Williamson Tobacco Corporation. Improvements in or relating to method of separating tobacco leaf from stem and separator therefor. Flowing air through a separation chamber at an increasing velocity from a relatively low velocity at entrant opening of the chamber to a relatively high velocity at exit.

63505. Satyendra Nath Sett. Tower bolts. Bolt is made of thin rectangular or like section and height of the clamp is relatively larger than thickness of the engagement end of the bolt.

63506. Void.

63507. Goodyear Pumps Limited. Improvements relating to the forming of rotors for rotary engines, pumps and the like. (March 22, 1957.) Tool working upon blank's periphery moves through a distance equal to that between successive convolutions of the vane while blank makes one complete revolution.

63508. The Goodyear Tire & Rubber Company. Improvements in Molding inflatable articles. Comprises inserting a pin through the wall of the material before the material is completely cured and while it may be readily displaced the pin having a peripheral wall of suitable size and shape to form the desired shaped opening in the wall.

63509. The Goodyear Tire & Rubber Company. Improvements in vulcanizing system. Includes a first rubber member juxtapositioned with respect to a second rubber member, a first heating system arranged to heat the first rubber member, a second heating system arranged to heat the second rubber member.

63510. The Goodyear Tyre & Rubber Company. Improvements in electronic temperature regulation for vulcanizing tires. Vulcanizing system for regulating and controlling the temperature of the heat applied in vulcanizing a rubber body to a carrier thereof.

63511. The British Oxygen Company Limited. Valve means for controlling the flow of inhalent gas to a patient. (April 24, 1957.) Comprising inlet chamber having inlet port, an outlet chamber having outlet port, a vent communicating with atmosphere through non-return valve, the said chambers intercommunicating through a valve port, a pressure responsive member, a valve member carried by the pressure-responsive member and closing said valve port or vent alternatively and manually operable means for moving the valve member to open said valve port and close said vent.

63512. Imperial Chemical Industries Limited. Isolation of gibberellic acid from aqueous fermentation media. (April 5, 1957.) Extracting aqueous fermentation medium of gibberellic acid with suitable water-immiscible organic solvent.

MARCH 24.

63513. Void.

63514. E. I. Du Pont De Nemours and Company. Improvements in or relating to the extraction of tungsten from tungsten-containing materials. Passing steam over tungsten-containing material at a temperature of at least 900—1100° C.

63515. British Telecommunications Research Limited. Improvements in or relating to transformers for use in telecommunication systems. (March 25, 1957.) Winding a layer of wire by means of winding machine under controlled heavy tension, seeing ends of the wire and covering it with a resin or cement.

63516. J. Rothenberger. Washing machine with at least two horizontal drums. One fixed outer container, atleast two rotating, perforated drums with a common axle with horizontal rotating axle and continuous or intermittent fresh water supply into the outer container.

63517. Corn Products Refining Company. Centrifugal pump. Characterized in that the last part of the wall of the helical casing consists of a screen.

63518. The English Electric Company Limited. Improvements in and relating to leadscrew devices and their application in electrical switchgear. (April 3, 1957.) Locking mechanism carried by nut or structure attached thereto and having a locking member in the form of movable tongue to mate with a recess in the leadscrew and lock the leadscrew and the nut.

63519. Unilever Limited. Improvements in or relating to methods of and means for the stacking of articles into layers. (March 27, 1957). Vertical layers of articles are transferred to a horizontal stacking platform, in a horizontal direction, which is in the same plane as the tilting movement through a distance not less than the width of the layer.

63520. K. W. Foster. Improvements in and to air conditioning units. Casing containing a rotatable pad for conditioning air, means to wet pad, fan to flow air through pad.

63521. Pending.

63522. A. G. Heron. Improvements in or relating to refrigerating apparatus. The tube is electrically but not thermally insulated from the fins so as to prevent short-cutting of sinuous conducting path.

63523. E. I. du Pont de Nemours and Company. Shaped structures and process for their production. Comprising shrunk synthetic condensation polymers whose degree of crystallinity of the polymer is less than the maximum achievable with the same polymer in 90° C. water.

63524. H. W. M. King. Improvements in or relating to busbars and similar electrical power conducting assemblies. Pliable strip electric insulator marking busbars or conductors and means associated with trolley or litter so constructed that despite said strip, passage of trolley along channel member will not be hindered.

63525. Cable Belt Limited. Improvements in or relating to conveyors. (March 25, 1957.) A head unit for a conveyor wherein the cables are reversed at the head end of the conveyor by passing around pulleys.

63526. Void.

63527. Void.

MARCH 25.

63528. K. Singh. Improvements in or relating to bed-steads. Back rest attachment for bed-steads is made movable into any position or angle with respect to horizontal plane and means are housed either in end of arms or separately.

63529. Void.

63530. N. V. De Bataafsche Petroleum Maatschappij. Polyvinyl chloride compositions and process for preparing the same. The rubbery additive in the

composition is in an amount of 3—25 PHR and is a copolymer of butadiene and styrene.

63531. British Nylon Spinners Limited. Improvements in or relating to the twisting of continuous filament yarns. (March 30, 1957.) An upstanding spindle adapted to rotate at high speed and to carry a yarn supply package, a yarn take-up means and a yarn guide positioned lengthwise above the spindle.

63532. Imperial Chemical Industries Limited. Improvements in or relating to igniters for solid propellant charges. An electrically actuatable means therewith a hollow-shaped explosive charge adapted to be initiated thereby and so shaped that the jet incandescent particles therefrom can be directed into ignitive contact with said rocket motor igniter.

63533. Imperial Chemical Industries Limited. Process for the manufacture of new monoazo dyestuffs. (April 23, 1957.) Reacting a cyanuric halide with a diazotised alkylamino-naphthol-disulphonic acid and a mono or dialkylamine.

63534. Casablancas High Draft Company Limited. Improvements in creel bobbin holders for spinning or preparing machines. (April 12, 1957.) The body catch is arranged for rotation by catch operating means positively located both axially and transversely in relation to the collar.

63535. Acheson Industries, Inc. Improvements in or relating to coating and coating compositions comprising polytetrafluoroethylene. (February 17 1958.) Comprising a dispersion of finely divided polytetrafluoroethylene and at least one thermosettable resin in a dispersing medium.

63536. J. R. Geigy A.-G. Substituted 3,5-dioxo-tetrahydro-1, 2, 6-thiadiazine-1, 1-dioxides. A malonic acid is reacted with a sulphamide.

63537. Tecalemit Limited. A diaphragm-operated pressure-reducing valve for use with liquid or lubricant distribution systems. (April 1, 1957.) Comprising a casing containing a resilient diaphragm rigidly fixed at its periphery and dividing into two spaces, a lubricant inlet connected to high pressure lubricant source works upon movement of said diaphragm.

63538. Dowsett Holdings Limited. Method and apparatus for separating particles of different specific gravity from a mixture of mineral particles. (April 2, 1957.) Method comprises feeding the mixture into a pipe, or other circumferentially closed conduit which extends horizontally then flushing the conduit with water or other liquid as a velocity within a range suitable according to the operating conditions.

63539. T. Yoshida. Slide fastener chain coiling apparatus. Cylindrical cam having a grooved path around its surface in diamond-like shape, a slide fastener chain guide having a guide roller which is fitted into the grooved path to give reciprocating motion to chain.

63540. Pending.

63541. Pending.

63542. Pending.

63543. Spofa, Spojene Farmaceuticke Zavody. A preparation of a new type of quaternary salts. Reacting trialkylamine with esters of higher fatty acids.

63544. Gluconate Limited. Process for the preparation of an anti-rheumatic substance. The substance is isolated from an acidified alcohol extract, obtainable from the plant of *Rauwolfia* series, by means of a lipid solvent.

63545. Void.

63546. Void.

63547. Void.

63548. S. Stockland. Apparatus for distributing fertilizer or other granular material. Wherein means are provided for feeding material from con-

tainer to distributing chamber, characterised by mouth-piece communicating at its upper end with an outlet from said container.

63549. "Ganz" Arammerogyar. Three phase induction meter. Characterised by a main support containing two measuring systems and an adjoined auxiliary support containing a third measuring system the plane of the auxiliary support making an angle with the plane of the main support.

63550. Organon Laboratories Limited. New 19-norsteroid compounds and process for the preparation thereof. Converting 17-oxo-steroid compounds by addition reaction into corresponding 17-hydroxy compound substituted in addition in 17-position by alkynyl or alkenyl radical.

63551. Samarendra Narayan Sinha. Improvements in or relating to gear mechanism for feed units. Provided with an epicyclic gearing and two controlling disc magnets, one of which when energised operating to impart slow motion to feed unit and other when energised operating to impart quick motion thereto.

63552. Ciba Limited. New n-acyl-sulphanilamido-pyrazoles and a process for their manufacture and pharmaceutical compositions containing same. N-acylating 3-(p-amino-benzene-sulphonamido) 2-phenyl-5-methyl-pyrazole.

MARCH 26.

63553. Void.

63554. Lodge-Cottrell Limited. Improvements in or relating to an electrostatic process for breaking down emulsions for the removal of suspended matter from liquids. (January 15, 1958.) Process comprises the steps of supplying the liquid to be treated in a uniform series of streams to a chamber or refinery, subjecting the streams to a high voltage direct current electric static field.

63555. Mather & Platt Limited. Improvements in multicolour printing machines. (March 3, 1958.) Characterised in that a helical toothed crown wheel drives the several printing rollers through pinions.

63556. Farbenfabriken Bayer Aktiengesellschaft. Process for vatting of vat dyestuffs. (January 24, 1958.) The reduction of the vat dyestuff is carried out with a boranate in the presence of a compound of tetravalent sulphur.

63557. Ames Crosta Mills & Company Limited. Improvements in or relating to the surface aeration of liquids. Liquid has access to the blades through the bottom opening and discharged centrifugally at the lip of the latter.

63558. Pending.

63559. N.V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of manufacturing bodies of ferromagnetic materials. Before or during shaping the finely divided initial mixture not containing constitutive material but containing at least one ferromagnetic compound is directed in a magnetic field while still being freely movable among them to a certain extent.

63560. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to plate-shaped, apertured supports and component parts secured to these supports. Relatively thin material is provided between the component part and the support and is likewise provided with apertures.

63561. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to moulds for pressing gramophone records. Compressing an upper block and a lower block, one of the blocks has a removable pin fitting in an aperture which pin has a round cylindrical form, the upper part and the lower part having the same and permanent diameter.

63562. Creed & Company Limited. Improvements in teleprinter clutches. (March 27, 1957.) Comprising spring band mounted on driven member and engaging driving member, mounting of spring band being made at a point on band that band is divided into two lengths having a ratio not greater

than 3:1, and means operable through lever stop arm, for expanding band to release said engagement.

63563. Void.

63564. Ciba Limited. Process for the manufacture of azo dyestuffs. [Addition to No. 59817.] Carrying out coupling in practically anhydrous medium with addition of at least one organic solvent.

63565. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of α , β -unsaturated aldehydes. Treating 1, 1-disubstituted propyn-(2)-yl-(1)-ester with acidic agent and catalyst compound of metal group 1b of periodic system and hydrolysing the product.

63566. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of unsaturated ketones. An ester is treated with an acidic agent in presence of a catalyst selected from group 1b of the periodic system.

63567. Hoffmann-La Roche & Co. Aktiengesellschaft. Heterocyclic hydrazine derivatives and their preparation. By condensing picolinic acid or nicotine and with a substituted hydrazine in the presence of a carbodimide.

63568. Void.

MARCH 27.

63569. Farbenfabriken Bayer Aktiengesellschaft. Phenylazo formamides. (January 24, 1958.) Diazotised phenylene diamine, one amino group of which is substituted, is reacted with a cyanic acid salt and the product saponified.

MARCH 28.

63570. Void.

63571. Food Machinery and Chemical Corporation. Improvements in the manufacture of hydrogen peroxide. By alternate reduction and oxidation of an alkylated anthraquinone as the working material dissolved in a mixed solvent.

63572. Parke Davis & Company. Process for the production of sulfonamide composition. Sulphonamide having antibacterial activity is combined with a dihydrotriazine.

63573. Sayama Tea Estates Limited. W. R. Worthington. Improvements in apparatus for the preliminary treatment of tea leaf. (March 29, 1957.) Comprising two conveying surface between which tea leaf is fed, pressure applying means adapted to subject the leaf to a plurality of pressure operation in the course of its travel in conveying surface.

63574. Sayama Tea Estates Limited and W. R. Worthington. Improvements in apparatus for the preliminary treatment of tea leaf. (March 29, 1957.) A rotatably mounted roller of large diameter, means arranged close to the surface of said roller to provide a nip for tea leaf carried between roller and said means.

63575. Union Carbide Corporation. Gas shielded metal arc welding torch. [Addition to No. 62143.] A gas directing nozzle surrounding the outer end of the electrode wire guide tube and extending therebeyond to a discharge orifice, feed rolls journaled in the welding gun behind guide tube for pushing electrode wire.

63576. Associated Apparel Private Limited. A hanger for wearing apparel. At lower end of hook-shaped piece is a base plate carrying a pivoting pin; the inner ends of two arms are pivotally mounted on pin; on base plate below the pivoting pin are provided stop pins to prevent the arms from dropping down.

63577. H. F. Zoller and J. L. Neumeyer. Improvements in or relating to hermetically sealed containers for packing surgical supplies. Container comprising a sealed tearable envelope and a tab within and secured to one end of said envelope.

63578. F. C. Brenner and G. J. Liloia. Fibrous absorbent product. Carded, highly crimped staple fibres of regenerated cellulose arranged uniformly in parallel, fibres length at least $\frac{1}{2}$ ", denier about 1 to 9, no. of crimps per inch greater than 20 times the square root of reciprocal of the denier.

63579. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to a method and device for fusing contacts onto semi conductive bodies. A jig having one or more spaces accommodating the semi-conductive body while in one or more parts provision is made of aperture accommodating the material for the contacts.

63580. Cable Covers Limited. Improvements relating to anchor grips for tensioning wires, rods or the like. (June 29, 1957.) Of the type wherein a plurality of gripping jaws are arranged to surround the member to be gripped and adapted to be wedged within an internally coned body when the member is tensioned.

63581. Union Carbide Corporation. Method for simultaneously sealing edges of thermoplastic films or sheets. Simultaneously sealing alternate edges of a stack of three or more films or sheets of thermoplastic material to produce a large single sheet.

63582. Standard Telephones and Cables Limited. Improvements in or relating to adjustable mechanisms. (September 13, 1957.) Speed of traverse of the tool holding member is controlled by adjusting the angle of setting of the leadscrew.

63583. Aluminium-Industrie-Aktien-Gesellschaft. Method for the recovery of fluorine from fluorine-containing waste gases. Washing waste gases with water and reacting the solution with aluminium and sodium containing material.

MARCH 29.

63584. Symington Wayne Corporation. Transition coupling for railway vehicles. Characterized by connecting means pivotally connected to said couplers for swinging into and clear of a throat thereof.

63585. Imperial Chemical Industries Limited. Electrically actuatable ignition device for propellant charges, propellant charges having them, and rockets employing them. Casing comprising electrically actuatable ignition means, finely divided fast burning charge to produce hot gases on actuation of igniting means and a deflagrating charge in pellet form to be ignited by the hot gases and capable on becoming thus ignited of being propelled in pellet form out of the exit end of the casing.

63586. Imperial Chemical Industries Limited. Improvements in or relating to the manufacture of polyurethanes. (April 3, 1957.) Interacting organic diisocyanate with castor oil partially esterified with mono- or di-dicarboxylic acid.

63587. Union Carbide Corporation. Polyether-polyacid products and method of production therefor. 7-97 parts by weight of an organic polyacid polymer are mixed with 93-3 parts by weight of a polyether.

63588. Dunlop Rubber Company Limited. Improvements relating to compositions suitable for use in the manufacture of floor and wall coverings. (April 3, 1957.) A composition comprises filler material, vegetable oil and organic compound having in its molecular at least two isocyanate or isothiocyanate radicals, the compound being heated.

63589. Pending.

63590. Societe D'Etudes Et De Participations Eau, Gaz., Electricite, Energie, S.A. Installation including a free-piston gas-generator and a machine driven by the power gas. An additional control device becomes operative for a short time upon abrupt decrease in load to render ineffective the control impulse to one or more of the gas generators.

63591. E. K. Cole Limited. Improvements in or relating to wave-guide components. (April 3, 1957.) Of the short-slot hybrid type comprising two adjacent ridged wave guide sections coupled on to a narrow wall by a slot.

63592. Collins and Company. Improvements in or relating to expandible wrist watch bracelets. Of the type which has an expandible band formed by assembly together a number of identical links in two layers one above the other.

63593. Void.

MARCH 31.

63594. Void.

63595. Imperial Chemical Industries Limited. Improvements in and relating to the treatment of polymers. (April 18, 1957.) Treating polymer with higher alcohol in presence of a solvent.

63596. Imperial Chemical Industries Limited. Improvements in or relating to the manufacture of compounds containing nitrosamine groups useful as blowing agents. (April 17, 1957.) The organic compounds are prepared by nitrosation in the presence of a dinaphthylmethane disulphonic acid.

63597. Joseph Lucas (Industries) Limited. A method of insulating metal strips for use in the manufacture of electric current-carrying coils. Comprising drawing separately metal strip and insulating strip, superimposing the former on the latter causing the insulating strip to assume channel section, effecting partial folding of the insulating strip around metal strip and effecting complete folding of insulating strip around metal strip.

63598. Simon-Carves Limited. Improvements relating to valve gear for carbonisation plants. (April 3, 1957.) Mechanical locking devices with the pawls connected to fluid operated lock jack which will prevent opening of the respective fuel supply cock unless supply cocks of the other fuel supply are closed.

63599. Void.

63600. British Telecommunications Research Limited. Improvements in or relating to speed control equipment for electric motors. (April 9, 1957.) In which the power supply to the motor includes a transducer the control windings of which are supplied with signalls derived by way of a filter from equipment driven by the motor.

63601. Talon Inc. Shoe fastening device. Comprising a pair of wing members, a resilient slide wire member bent to substantially a V-shape having the outer ends of its arms detachably attached to the respective wing members.

63602. Chas. Pfizer & Co., Inc. Preparation of sulfonylureas. Treating alkali metal or alkaline earth metal salt of arylsulfonamide with N, N-diaryl-N'-mono-substituted urea in inert polar organic solvent medium.

63603. Sparklets Limited. Valve assembly. (April 18, 1957.) An actuating member slidable in the bore of the valve member and having a passage therein through discharge occurs.

63604. United States Steel Corporation. Method and apparatus for making cement clinker. Progressively igniting and burning fuel component of a mass of granular clinker-forming material and fuel as the mass descends in a reaction zone against the upwardly moving air blows through the mass.

63605. Shri Dhar. Process for the manufacture of tinsel powder. Which consists by blowing a hollow piece of glass, coating the inside surface of said piece with silvering solution and nitro cellulose lacquer respectively. Allowing the coated surface to dry these crush the said piece into powder.

63606. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Nicotinoyl-hydrazine derivatives and process for the manufacture thereof. Reacting a reactive nicotinic acid derivative with a substituted hydrazine.

63607. Dr. E. Gretener. Method for processing a subtractive motion picture film. [Addition to No. 55486.] From master obtained by photographing coloured object, there is obtained by photographic steps a picture registration and the registration corrected by values superimposed in photographic process and which are obtained by scanning of master and conversion resulting colour component signals, either correcting value or photographically obtained combination being employed as photographic recording on intermediate film and the other component being constituted as optical image during printing.

63608. Ciba Limited. Process for the manufacture of aqueous pigment preparations containing water-insoluble hardenable resins for dyeing and printing process. Mixing hardenable water-insoluble etherified methylol-compound of amide forming aminoplast with formaldehyde dissolved in water-insoluble organic solvent and organic pigment, with non-ionic emulsifying agent.

63609. Consortium Fur Elektrochemische Industrie G.M.b.H. Process for the manufacture of carbonyl compounds. (January 1, 1958.) An olefine with oxygen is conducted over a catalyst comprising a compound of a transitional metal of groups 5—8 and sub-group 1, in the presence of steam.

63610. L. Pearman. Peanut shelling machine. Cam means operatively associated with radially movable members and are carried by a drum and bear against the internal surface of the basket.

63611. Institut Francais Du Petrole, Des Carburants Et Lubrifiants. Improvements in or relating to the catalytic hydrogenation of light unsaturated hydrocarbons. (February 17, 1958.) A solution of light unsaturated hydrocarbon fraction in a suitable solvent is hydrogenated in the presence of a catalyst.

63612. The United Wire Works Limited. Improvements in or relating to phosphor bronze alloys. (August 7, 1957.) Mangaruese containing phosphor bronze alloy comprising from about 1 per cent. to 5 per cent. Mn, about 6 per cent. to 8 per cent. tin, about 0.2 per cent. to 0.4 per cent. phosphorus and balance copper.

63613. (Mrs.) Kutti Ramaniah. Improvements in or relating to tooth brushes. Provided at its free end with a covering layer of sponge rubber, sponge plastic foamed latex or like soft resilient substance.

APRIL 1.

63614. Siemens Edison Swan Limited formerly Siemens Brothers & Co. Limited. Improvements relating to magneto-strictive delay lines in combination with pulse lengthening circuits. (April 8, 1957.) Incorporating a pulse lengthening circuit and a coincidence gate.

63615. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to textile drafting mechanism. Carrier arm comprises two component parts, one of the arms being pivotally received on the bracket to which it can be locked during its operative position while the other carriers all the twin top rollers and their weighting means.

63616. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to textile drafting mechanism. The latch has a surface which co-operates with a striking surface on the detent member.

63617. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to textile drafting mechanism. The bracket is divided substantially parallel to the plane of the drafting field in such a manner that the lower portion secured to the supporting bar is held against the lateral swinging movement and the upper portion carrying the top-roll carrier is able to twing laterally.

63618. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to double-apron textile drafting mechanism. [Addition to No. 60548.] The rollers in the middle pair are offset in relation

to one another in the direction of draft to form a pair of apron controllers or guiding rollers.

63619. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to textile drafting mechanism. The weighting means to the guide arms are mounted together with their seatings for lateral swinging movements.

63620. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to tension rollers. A tension roller mounted for rotation on at least two rows of ball bearings which run on a shaft and the outer tracks of which are provided on a common member.

63621. Union Carbide Corporation. Oil-treated calcium carbide for desulfuration of iron. Injecting a stream of gas laden with comminuted calcium carbide which is mixed with oil prior to its introduction into the stream of gas.

63622. Union Carbide Corporation. Welding flux composition. Flux composed by weight 10—40 per cent. zircon sand, 10—25 per cent. periclose, 10—35 per cent. Rutile, 2—8 per cent. cryolite, 0—20 per cent. silica, 0—20 per cent. alumina, 0—8 per cent. Ferro-alloy, 0—16 per cent. silicomanganese, 0—20 per cent. Magnetite, 10—30 per cent. iron powder, and 1—4 per cent. sodium silicate.

63623. Dunlop Rubber Company Limited. Method and apparatus for the manufacture of hot-stretched continuous thermoplastic fibres. (April 8, 1957.) Comprising the step of passing fibre through a bed of a fluidised solid which is at a temperature different from that of the fibre entering bed.

63624. E. & M. Lamort Fils and R. M. F. C. de Saint-Hilaire. Process and apparatus for treatment of fibrous materials in liquid suspension such as paper pulp. Characterised in that the said material are subjected to disintegrating action of agitators which project to material against a perforated wall.

63625. Douglas Fraser & Sons Limited. Apparatus for feeding textile fibrous materials to a processing machine. (April 6, 1957.) Uniform band of a width narrower than that of feed to the processing machine to power-operable means adopted to accelerate the rate of travel of the fibres of the material.

63626. Egyesult Izzolampa Es Villamossagi Reszvenytarsasag. Circuit arrangement for the demodulation of electric oscillations modulated in frequency or modulated in phase. (August 28, 1957.) Provided with means for clamping of modulations possibly occurring in amplitude.

63627. Aktiebolaget Industrikompaniet Vibrator. Valve body is adapted to be actuated by the movement of the piston through the intermediary of one or several spring members which act on the piston during the whole of its movement.

63628. J. J. H. M. Hetzfer. Apparatus for extracting liquid from liquid-containing material. Curved guide plate with concave surface gradually narrows towards the gap between the rollers and the guide plate is provided with outlet openings for the liquid.

63629. SANDOZ LTD. Improvements in or relating to process of preparing of mixtures of water-insoluble disazo dyestuffs and process of dope-dyeing therewith. (February 5, 1958.) Coupling mol of tetrazo compound of diamine $\text{NH}_2 \text{C}_6\text{H}_4 \text{C}_6\text{H}_4 \text{NH}_2$, with 2 mol of 2-hydroxynapthalene-3-carboxylic acid amide and 1-aryl-5-pyrazolone.

63630. Robert Bosch G.m.b.H. Improvements in or relating to fuel injection equipment for a multi-cylinder internal combustion engine. Comprising pump and distributor elements, the latter having rotary and reciprocating motion and the elements having sealing contact during part of reciprocatory movement of distributor elements, and abutment means limiting stroke of pump element to have a gap between elements when distributor is in outer position serving as fuel inlet and return aperture, the elements being urged to each other by a spring to act as pump plunger when in sealing contact.

63631. Pintsch Bamag Aktiengesellschaft. Improvements in or relating to a process of and apparatus for extraction of soluble materials by means of

solvents. Passing material in rotatable drum divided into plurality of chambers with compartments formed by liquid permeable partitions in counter current to solvent from one chamber to other.

63632. Void.

63633. H. W. Albu. Improved adhesive product. Comprises a film backing of vinyl chloride polymer plasticised with a polycondensation product of neopentyl glycol and aliphatic dibasic acid and coated with a pressure sensitive adhesive.

63634. N. V. Curacaosche Exploitatie Maatschappij Uto. An anode having a core of a base metal provided with a coating of a precious metal or another resistant material. The core consisting of titanium.

APRIL 2.

63635. Dr. S. Rao Krishnamurthy. An improved composition of matter obtainable from cashew nut shell liquid or bhilanwan nut shell liquid, or ginkgo biloba fruit liquid or a mixture of two or more thereof particularly for use as an impregnant for electrical insulation. Removing acidity, if any, drying and then completely decarboxylating of cashew nut shell liquid or bhilanwan nut shell liquid or ginkgo biloba fruit liquid or a mixture of two or more thereof.

63636. W. S. Hodgkinson & Company Limited. Improvements in or relating to paper making. (April 2, 1957.) In a paper making process, the paper web is impregnated with two types of resin-forming components which will form the synthetic resin *in situ* within the web.

63637. The General Electric Company Limited. Improvements in or relating to phosphors. (May 1, 1957.) A phosphor comprises an alkaline earth-metal halophosphate activated by tin in the stannous state with or without *cu* in the cuprous state.

63638. Void.

63639. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to adhesives for attaching copper foils to other objects. To an adhesive composed of a copolymer of butadiene and acrylonitrile mixed with a resin of the phenolaldehyde type, 5—60 per cent. by weight of an aliphatic monocarboxylic acid is added.

63640. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of producing composition for combating noxious organisms in agriculture and horticulture. Comprising 0.01-50 per cent. of compounds like α -terthienyl or 5, 5'-dimethyl-2, 2-"bithienyl with diluent or carrier".

63641. G. G. Awade. Improvements in or relating to name plates or the like. Comprising a front frame having at its back one or more guide channels in which is slipped a black plate and on which are interposed the name plate.

63642. Wasag-Chemie Aktiengesellschaft. Improvements in or relating to electrical detonator fuse. Comprising in combination a cylindrical insulator, a tubular centre electrode provided in an aerial passage of the insulator and a cylindrical outer electrode surrounding the peripheral zone of the insulator.

63643. Spofa. Spojene Farmaceuticke Zavody. Narodni Podnik. Process for the manufacture of new phenothiazine derivatives. Condensing 1:3-dipalogenoephemothiazine with dialkylaminoalkylhalogenides.

63644. VEB ZEMENTANLAGENBAU DESSAU. Process for the heat treatment of silicious raw materials. Burning siliceous raw material characterised in that the total heat treatment of the material takes place in a state of suspension.

APRIL 3.

63645. M. A. Chaudary. An improved apparatus for harnessing and utilising solar energy. A plurality or battery of heat reflectors, each reflector with

a coil or pipe or pipes on its top is arranged, sun's rays being reflected on coils or pipes heat ammonia or volatile material to develop pressure.

63646. American Steel Foundries. Improvements in a railway draft gear. Housing encloses independent parallel spring and closed end provides a rear abutment the forward end provided with inwardly facing arcuate surfaces.

63647. Commissariat A. L'Energie Atomique. Device for the measurement of magnetic fields by magnetic resonance. Comprising a container with a sample containing nuclei of non-zero angular momentum and non-zero magnetic moment having a nuclear resonance frequency in the magnetic field, means for producing inside said container an alternating magnetic field and means for determining the nuclear resonance frequency.

63648. Olin Mathieson Chemical Corporation. Synthesis of steroids. Reacting 9 α -halo-16 α -hydrocortisone with an aldehyde or ketone of the formula $=C < P$ where P and Q are alkylene radicals of which one is hydrogen.

63649. Chugai Seiyaku Kabushiki Kaisha. A process for the preparation of glucuronolactone. Hydrolysing oxidized starch under action of amylase.

63650. D. E. Ferris. Method and apparatus for producing hypochlorite of soda in an electrolytic cell. Producing sodium hypochlorite by rapidly passing an uninterruptedly flowing stream of an aqueous solution of sodium chloride through specially constructed electrolytic cell.

APRIL 5.

63651. P. B. Menon. Power regulator for A.C. electric fan motors. Comprising plurality of condensers which are arranged to be connected step by step in parallel amongst each other and in series with the fan motor.

63652. Void.

63653. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Production of bulked yarn. Subjecting a continuous yarn formed from synthetic filaments to a stretching operation at a temperature of from 20° C. to 80° C. and subjecting stretches yarn to rapid thermal treatment.

63654. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Printing ink and process for preparing the same. Comprising a solution of one or more linear, amorphous low or average molecular weight polymers of α -olefines and a dye or pigment.

63655. British Nylon Spinners Limited. Improvements in or relating to crimped filaments and their manufacture. False-twisting yarn consisting of undrawn or incompletely drawn synthetic linear polymer continuous filaments, drawing said yarn whilst in the solid state and false-twisted condition and subsequently relaxing filaments to crimp.

63656. British Nylon Spinners Limited. Method for winding double taper yarn packages in downtwisting winding and like machines having constant stroke traverse and shift mechanisms, and machines therefor. (April 5, 1957.) The traverse guide is provided with a shift motion moving under acceleration as it approaches each end of its strike and/or under deceleration as it starts each stroke.

63657. Societe Des usines Chimiques Rhone-Poulenc. Improvements in or relating to piperidine derivatives and process for their preparation. A diphenyl-(2-piperidyl) acetate is reduced to an alcohol and if desired, the resulting piperidyl ethanol is esterified.

63658. Textilose Limited. Improvements in or relating to paper sticks for supporting lollipops and like confactions. Comprising at least one strip of paper which is initially folded or crushed and subsequently compressed to form, throughout its mass.

APRIL 7.

63659. Council of Scientific and Industrial Research. An improved vacuum tester for canned foods. A suitable step-down transformer, a double-pole-double-throw switch and suitable plugs are provided for operation.

63660. O. D. Smith. Cutting-off machine for cutting rods, tubes, rolled or extruded sections and the like. Machine having a abrasive or other wheel or saw, mounted on to be rotatable about vertical axis passing through or near the point of engagement of the wheel with the work.

63661. Morgan Fairest Limited. Improvements in or relating to bottle-crating machines. (April 13, 1957.) Comprising means for presenting bottles in spaced sequence to a suspension feed line that supports each bottle for feeding a succession of crates.

63662. United States Steel Corporation. Troughed belt conveyor. Comprising a pair of end roots for supporting said belt and a plurality of roll assemblies for supporting the troughed belt.

63663. May & Baker Limited. Improvements in or relating to amines and to processes for their preparation. p-Amino-phenoxy-alkyl and-alkenyl compounds are prepared by introducing by conventional methods an oxyalkyl or-alkenyl group into a substituted phenyl derivative.

63664. Societe Des Usines Chimiques Rhone-Poulenc. Improvements in the preparation of spiramycins II and III. Streptomyces ambofaciens NRRL 2420 is aerobically cultivated in a medium in the presence of an acetylating or propionylating agent or a precursor therefor.

63665. General Aniline & Film Corporation. Ester type surface agents. Reacting a hydroxylamine sulfonic acid with a mixed anhydride of boric acid and a fatty acid.

63666. Imperial Chemical Industries Limited. New molluscicidal compositions. (April 17, 1957.) The compositions comprise a phenyl substituted triphenyl methane derivative and a carrier excluding water and common organic solvents.

63667. Dunlop Rubber Company Limited. Coated articles. (July 24, 1957.) Comprises applying to a surface of the article, during or after fabrication, a layer of a reaction product of (a) an organic compound having atleast two-NC $\times$ radicals in its molecule where $\times$ represents either an oxygen or sulphur atom, (b) a polyether or polythioether having at least two hydroxyl groups in each molecule.

63668. Void.

63669. Schering Aktiengesellschaft. Process for the manufacture of the aminoacetates of saturated and unsaturated 21-hydroxy-pregnane compound and their water-soluble acid addition products. Hydroxy pregnane is reacted with chloracetic anhydride and the resultant is reacted with an amine.

63670. Unitex Limited. Improvements in pickers for looms for weaving. (May 8, 1957.) Having a recess formed therein to provide side and end clearances.

63671. Pye (Ireland) Limited. Improvements in or relating to electrically controlled traffic signals. (April 9, 1957.) Comprising means for applying an electronic pulse to the actuating coils of a stepper switch the contacts of which are selectively grouped and connected to the traffic signal.

63672. UCLAF. Dimethyldithiocarbamic acid complex and the preparation thereof. (March 31, 1958.) Reacting an alkali or alkaline earth metal dimethyldithiocarbamate with cuprous chloride in an inert gas atmosphere.

63673. Mavor & Coulson Limited. Improvements relating to cutter-chain machines for mining coal and other minerals. (April 9, 1957.) In which cutter chain jib has a cylinder-and-plunger device having normally closed inlet adopted for admission of fluent matter and which is extended to extend jib and so increase chain-tensioning thrust applied by jib to cutter-chain and inlet adopted to be open so that the device can be contracted and the chain slackened.

63674. Ericsson Telephones Limited. Improvements in or relating to key-operated electric switches. (April 9, 1957.) A key-operated switch connected across the impulse sender contacts of the dialling circuit, the switch in its first setting closes a short circuited path between the said contacts and in a second setting interrupts the short circuiting path.

63675. Ing. A Maurer S.A. Slinger device for keeping apart yarn processing liquids. An annular thrower firmly arranged on the second roller, thrower being provided with at least one inclined gap for passing through of the leading yarn loop.

63676. Creed & Company Limited. Improvements in/or relating to friction clutches. (July 4, 1957.) Comprising a band mounted on a driven member and arranged to engage frictionally a driving member.

63677. Hammerle A.G. Sheet-metal-working machine. For movement of mounting element, two drive arrangements are provided, one having a rotating control shaft and the other a piston.

63678. The Standard Motor Company Limited. Plate heat-exchanger. (May 20, 1957.) Comprising a pair of interconnected corrugated platelike walls of which, the corrugations at the outer side of each plate like wall are bridged sealingly to provide a plurality of parallel flow paths for one of the fluids, between which heat exchange is to be affected.

63679. The Standard Motor Company Limited. Gas turbine power plant. (May 20, 1957.) Including auxiliaries which, during acceleration of the plant, are arranged to be driven by electric motor-generator, functioning as a motor.

63680. Schnellpressenfabrik Aktiengesellschaft Heildelberg. Improvements in or relating to feeding devices, especially for platen presses. Lay and delivery of sheet effected by grippers mounted on platen to which sheet is transferred by suction bar which is provided with sucking nozzles which even after transferring sheet to grippers, communicates with source of suction to keep the sheet taut between grippers and suction bar.

63681. Hilmor Limited. Improvements in or relating to tube bending machines. (April 10, 1957.) The combination of a frame-arm structure comprising a frame-arm plate, a forming tool mounting intermediate the ends of the frame-arm plate and adapted to have a forming tool pivotally mounted in it.

63682. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. An improved process for the production of cross-linked polyvinyl chloride. By swelling the polyvinyl chloride by means of a non-polymerisable organic solvent and then subjecting to the action of ionising radiation.

63683. Ciba Limited. Pharmaceptical preparations containing a pregnene compound. Comprising α -pregnene-3 β :16 α -(diol-20-one or its 3 β :16 α -diacetate or 3 β -monoacetate and pharmaceutical carrier.

63684. Ciba Limited. New esters of a pregnene compound and process for their manufacture. Converting by known methods Δ^5 -pregnene-3 β :16 α -diol-20-one or its 3-monoacetate or 3.16-diacetate to 3 β -16 α -, diester or 3 β or 16 α -monoester, at least one of the ester radicals in 3:16 α -di and the 3 β -monoesters being different from acetyl.

63685. Council of Scientific and industrial Research. A process for the manufacture of light constructional material such as hard boards, laminates, blocks or the like. [Addition to No. 56582.] Fibrous material is impregnated with a resin obtained by condensing with an aldehyde an alkali extract of tar acids.

APRIL 8.

63686. Judhistir Roy. Improvements in or relating to water supply systems. Comprising a reservoir having an open bottom and water impervious sides and cover sunk below spring level and covered by soil, a pipe passing through soil and the cover, extending at one end to about 1 ft. above bottom of reservoir and the other end extending to a foot or two above ground level, and fitted with a pump at the end above ground level.

63687. N. V. De Bataafsche Petroleum Maatschappij. Lubricating oil compositions. Comprising a lubricating oil, an oil-soluble, nitrogen containing polymer and an oil soluble Group II divalent metal dithiocarbamate.

63688. Columbian Carbon Company. Rubber compounding. Carbon black is mixed with rubber while in latex form.

63689. Westinghouse Brake & Signal Company Limited. Improvements relating to centralised traffic control systems. (April 18, 1957.) For remote control from a control office of points signals and other apparatus governing the movement of traffic at one or more remotely situated field locations.

63690. T. Hindmarch. Locking device for propeller blades. (April 15, 1957.) A friction brake member upon boss of the propeller co-operating with the brake member upon the root, fluid pressure operating means for forcing brake members in engagement.

63691. British Ropes Limited. Improvements in or relating to machines for processing wire ropes. (April 17, 1957.) [Addition to No. 52785.] The arrangement for applying back tension to the rope, strand or core during passage through the reducing means comprises a drag generator.

63692. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to textile drafting mechanism. Flat springs are provided as weighting means for the top rolls.

63693. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica, and K. Ziegler. Method of preparing shaped articles. Preheating polypropylene sheets below its softening point placing the sheet in contact with a mould, heating to the softening point of the resin and applying a vacuum between the sheet and the mould.

63694. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. High impact strength polymeric compositions and process for their preparation. Polymerising a vinyl benzene compound at 50 to 130° C. in the presence of linear polymers of α -olefins of the formula $\text{CH}_2=\text{CHR}$.

63695. Montecatini Societa Generale Per L'Industria E Chimica and K. Ziegler. Process for preparing polymers of olefins. Polymerising α -olefin in a solution of at least one paraffinic hydrocarbon having an atmospheric boiling point of from -42 to $+0.6^\circ\text{C}$.

63696. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Process for the preparation of linear high polymers of α -olefines. [Addition to No. 56197.] Polymerising α -olefines in the presence of organo metallic catalysts at -80 to 20°C . or at 120 to 220°C .

63697. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Appetite depressant compositions. Consisting of 1-(2:4-dimethyl-phenyl)-2-aminopropane and its addition salts in admixture with a pharmaceutical carrier.

63698. Ciba Limited. Process for polymerizing basic amides. Polymerising basic amides of polymerizable unsaturated carboxylic acid with the use of a peroxide catalyst in presence of carbon dioxide.

63699. Ciba Limited. Rapidly hardenable compositions of epoxide-compounds and complexes of friedelcraft's catalysts. An epoxide compound and a complex of a friedel crafts catalyst or boron trifluoride with an alcohol or an ether.

63700. Ciba Limited. New aminophenylmercapto-pyridines and process for their manufacture. Reacting 4-mercaptopyridine with nitrohalogen benzene.

APRIL 9.

63701. Void.

63702. N. V. De Bataafsche Petroleum Maatschappij. Lubricant for steel wire ropes. Comprising 25—35 per cent. of petroleum, 25—35 per cent. by weight of lanoline. 5 to 10 per cent. by weight of alkali naphtha sulphonate, 25—30 per cent. of gasoline, 0—5 per cent. of an acyclic aliphatic alcohol having 4 to 8 carbon atoms.

63703. T. Hindmarch. Marine transmission gear with controllable pitch propeller actuating mechanism. Characterised in that said propeller shaft within the transmission gear, is driven from a shaft parallel to propeller.
63704. T. Hindmarch. Improvements in or relating to marine controllable pitch propellers. Variable pitch propeller having blades mounted upon a hallow hub for rotation for varying the pitch.
63705. Void.
63706. General Electric Company. Improvements in or relating to "Food process and product". Animal to be slaughtered is treated with an agent such as adrenaline capable of removing glycogen from muscles.
63707. Zavody Presneho Strojirenstvi, Narodni Podnik. A double friction clutch for motor vehicles. Pressure plates of clutches are mounted between friction discs of both clutches and urged forming air chamber between them apart by springs.
63708. Director of Research and Development (General), Directorate of Technical Development, Ministry of Defence, Government of India, New Delhi. Thermally insulated food containers. Comprising a housing, a lid, walls of lid and housing thermally insulated, and within housing is a casing with a cover and at the inside of lid is fitted a device for pressing cover of casing and closing mouth of tube in cover of casing, the casing holding food containers.
63709. Dr. P. Dornbusch. Improvements in or relating to calenders and rolls therefor. Impression roll having seamless jacket, produced separately from roll core, being provided with an impression pattern and made of plastic synthetic material which before setting is readily deformed and after setting is still elastically resilient.
63710. Organon Laboratories Limited. 19-norsteroid compounds and process for the preparation thereof. Reacting Δ^4 -3-hydroxy-19-not steroid compound with alkali metal in presence of liquid ammonia or lower aliphatic primary amine.
63711. A/S Kosangas. Reduction valves for bottled-gas installations. A two stage reduction valve for gaseous mediums comprises a high pressure and a low pressure unit both having diaphragm operating a spindle.
63712. A/S Kosangas. Fitting for gas cylinders or the like gas containers. A gas cylinder fitting comprises a discharge valve also serving as a filling valve and a safety valve independent of discharge valve housed in a valve housing as one unit.
- APRIL 10.
63713. Bristol Laboratories International, S.A. Process of preparing new antibacterial agents. Antibacterial agents comprises reacting a monocyclic aromatic mono-aldehyde with kanamycin base and separating the water-insoluble kanamycin product.
63714. Pending.
63715. Societe Des Accumulateurs Fixes Et De Traction. Method of and device for assembling and mounting electrical storage batteries. Disposing within container against its inner walls and vertically detachable supports and suspending from these supports above the bottom of the container, cells by means of co-acting members carried by battery elements and by supports.
63716. J. Helen. Improvements in or relating to tyres and wheels especially for bicycles, motor cycles and like vehicles. Wherein the air-inflated inner tube is substituted by an annular ring composed of a spongyous micro-cellular rubber compound.
63717. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Polypropylene monofilaments and a method of preparing them. Preparing monofilaments by extrusion, the temperature at the input and of the extruder is from 20 to 100° C. above the melting point of polypropylene.

63718. The Permutit Company Limited. Improvements relating to electrolytic cells. (April 11, 1957.) [Addition to No. 57707.] Two rigid spacers are provided at intervals so that the membranes and flexible spacers are divided into groups each group being held between the two rigid spacers.

63719. Council of Scientific and Industrial Research. A process for the production of alkyl eugenols. Alkylating cinnamon leaf oil or clove oil in the presence of an alkali.

APRIL 11.

63720. Bristol Laboratories International, S.A. Process for recovering kanamycin. Kanamycin is extracted from an aqueous solution thereof at alkaline pH into a water-immiscible solvent containing an aromatic aldehyde or an unsubstituted aliphatic aldehyde (4-10C. atoms) and re-extracted into water at acid pH.

63721. Chicago Pneumatic Tool Company. Torque control for impact wrenches. [Addition to No. 55304.] Fly wheel driver interposed between the rotatable shaft and the fly wheel. The flexible connection drivingly connects with the fly wheel and includes lost motion connection between the fly wheel driver and the shaft.

63722. Metropolitan-Vickers Electrical Company Limited. Improvements in and relating to electric tap changing systems for transformers. (April 12, 1957.) Wherein the several tapping points of a transformer winding are each connected to a load through a common two-branch circuit.

APRIL 12.

63723. Void.

63724. J. Stone & Company (Deptford) Limited. Improvements relating to temperature control for a compartmental vehicle. (April 15, 1957.) Provision is made for automatically raising the temperature setting of the main thermostat or thermostats when individual compartment heating is switched on.

63725. Ideal Industries, Inc. Apparatus for cleaning the rolls of textile machines. Comprising means for applying suction in a confined air channel longitudinally of the periphery of each roll.

63726. United Kingdom Atomic Energy Authority. Improvements in or relating to the preparation of substantially pure solutions of metal salts. Contacting an amalgam of a metal with the impure solution, whereby the ions of the metals of lower electrode potential are removed from impure solution by the amalgam and ions of the metal pass from the amalgam into solution.

APRIL 15.

63727. Imperial Chemical Industries Limited. Improvement in or relating to the production of synthetic elastomers. (May 1, 1957.) A diisocyanate and a mixture selected from the group consisting of polyesters, polyester-amides and polyethers, containing at least a compound which melts not below 160° C. selected from the group of polyesters and polyester amides are interacted and cured.

63728. Imperial Chemical Industries Limited. Polymerization of ethylenically unsaturated compounds and catalysts therefor. (April 17, 1957.) Ethylenically unsaturated compounds are polymerised by bringing them into contact with a catalyst produced by mixing one or more organo-compounds of a non-transitional metal of groups I-III of the periodic system and an inorganic lead compound or lead salt with an organic acid.

63729. British Nylon Spinners Limited. Process and apparatus for the heat treatment of running yarns. (April 25, 1957.) Wherein yarn is drawn through a heating jacket, subjected firstly to heat at a temperature considerably in excess of the treatment equilibrium temperature.

63730. Vitreous Concrete Company Limited. Improvements in or relating to traffic ways. Which comprises mixing fly-ash as an aggregate in a mix including setting accelerators.

63731. The Dow Chemical Company. Anode for magnesium primary cell. Comprises an alloy of magnesium and aluminium containing massive $Mg_{17}Al_{13}$ compound dispersed therein.

63732. Void.

63733. Olin Mathieson Chemical Corporation. A process for preparing a 21-fluoro steroid. [Addition to No. 60560.] A 21-organic sulphonyloxy steroid of the pregnane series is interacted with an alkalimetal bifluoride in an organic solvent of high dielectric constant.

63734. The British Drug Houses Limited. Colour stable tablets. (April 24, 1957.) Comprising acetylsalicyclic acid, codeine, silicone fluid of 1000 to 1000,000 centistokes viscosity and talc.

63735. Void.

63736. Pending.

63737. Automatic Telephone and Electric Company Limited. Improvements in or relating to automatic telephone systems. (April 18, 1957.) Employing digit registering switches for group marking purposes.

63738. Automatic Telephone & Electric Company Limited. Improvements in electrical switching arrangements. (April 23, 1957.) During movement of the wiper from one contact to the next the contact making portion of the wiper is deflected out of engagement with the first contact maintained deflected and thus restored to engage the next contact.

63739. The Steel Company of Wales Limited. Improvements in open-hearth furnace. (August 1, 1957.) [Addition to No. 61067.] Having an oxygen delivery pipe or gun is mounted in a framework on the side wall, the framework having means slidably supporting the pipe or gun.

63740. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for producing dyeings and prints fast to wet processing on cellulose fibres. A water-soluble dyestuff containing one or more groupings of the formula -acyl -Hat is applied to the fibre in the presence of an acid binding agent.

63741. L. G. Vokes. Engraving dies and plates by photo-engraving process. (April 16, 1957.) Comprises coating the die or plate with a light-sensitive composition, exposing the light sensitive coating to light in such a manner that the coating on the area to be engraved may readily be removed after exposure.

63742. A. Scambia. Improvements in anti-glare car head lights. Comprises a shell, a conventional concave mirror provided with a lamp and a lamp therefor in the focus of said mirror and a number of suitably spaced parallel screens.

63743. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Process for the polymerization of α -olefins to linear high molecular weight highly crystalline polymers. Preparing polymerisation catalyst by contacting an organometallic compound of a metal of Group I, II or III, with a compound of a metal of Group IVa, Va or VIa.

APRIL 16.

63744. Casablancas High Draft Company Limited. Improvements in or relating to drafting apparatus for textile fibres. (May 6, 1957.) The combination of a lower tensor extending over the greater part of the operative run of the lower end and serving to deflect the said run.

63745. Casablancas High Draft Company Limited. Improvements in or relating to top arms for roller drafting mechanisms. (July 2, 1957.) A top arm having an inverted channel form with comparatively shallow side walls and roller holding and weighting unit each incorporating guide means.

63746. The English Electric Company Limited. Improvements relating to regenerative braking systems for D.C. motors. (April 30, 1957.) Including a

relay arranged to be energized differentially in accordance with motor, armature.

63747. Void.

63748. The De La Rue Company Limited. Rotary printing press. (May 15, 1957.) Comprising plate cylinder intaglio printing plate attached to it. impression cylinder inking means to supply ink to printing plate, means for wiping ink from plane surface of intaglio plate and second inking means to supply ink to wiped surface of printing plate in register with intagliated parts of the plate.

63749. Columbian Carbon Company. Rubber compounding. Aqueous slurry of carbon black is mixed with rubber or like polymers while in latex form.

63750. Parke, Davis & Company. Process for the production of novel trichloro-methyloxazolid-4-one compounds. Reacting lactamide with $R'=C=O$ in presence of acid catalyst and alkylating reaction product R' is being combination of hydrogen-trichloromethyl radicals.

63751. J. R. Geigy A.-G. Process for the production of 4-nitrostyryl-2-sulphonic acid compounds. Salts of 4-nitro-1-methylbenzene-2-sulphonic acid are condensed with aromatic aldehyde in the presence of a strong secondary nitrogen base.

63752. Pending.

63753. Pending.

63754. M. Heller. Improvements relating to resilient structure for divans couches, beds and the like. (May 1, 1957.) Comprising a rigid frame wherein a substantially centrally-positioned member is held suspended by a plurality of oppositely-disposed tensile elements.

63755. The British Thomson-Houston Company Limited. Improvements in remote angular position control system. Comprising selsyn transmitter and receiver, the rotor of which having two windings, one connected to electric supply, while the other is connected through amplifying means to energise electric motor coupled with receiver whereby to rotate the receiver into angular positional alignment with the transmitter.

63756. Teleflex Products Limited. Improvements in and relating to endless conveyors. Driven endless chains having pairs of parallel links interconnected by supported spindles to engage "cruciform-section" track and adapted to reciprocate with independently driven similar storage conveyor system.

63757. Dr. F Thenhalter. Method for the production of transfer positive films for textile printing rollers. Using screen negatives for full shade, the half-and the quarter-tone and combining point-screen negatives with inclination of 45° for half and quarter tone and line screen negatives with inclination of 25 to 30° for full shade, only one etching depth being exant for full shade and half-and quarter tones produced by single etching process of the rollers.

63758. M. W. Lalchandani. Gripdown clamp for machine tools. Consisting a base with dovetail recess in its front at 45° to 70° to the base line and an U-shaped slot at rear end to bolt it down tee slot of lathe.

63759. Bright Brothers Private Limited. Improvements in or relating to moulds in injection moulding of hollow plastic containers with handles. That portion of the mould containing the impression of the handle is made up of two halves which split in order to enable the moulded container to be extracted from the mould.

63760. Alembic Chemical Works Company Limited. Improvements in or relating to the production of penicillin by fermentaton. Fermentative cultivation in presence of safflower (kardi) oil cake.

APRIL 17.

63761. Gay-Bell Corporation. Container formed from a flexible blank. Comprised of is flexible blank, first score lines across said blank to define

panel sections, a hoop-and-liner fastened to each longitudinal edge of said blank. A flexible lacing means for each said hoop-and-liner.

63762. Gay-Bell Corporation. Metal hogshead. Comprising a flexible metal blank scored to define upstanding staves and also having score lines and notches to define a hoop-and-liner for each longitudinal edge of said blank. And also flexible lacing means within the hollow chimes.

63763. International Computers and Tabulators Limited, formerly known as The British Tabulating Machine Company Limited. Improvements in or relating to paper feeding apparatus. (May 6, 1957.) Mechanism to feed paper to predetermined line position with means for reducing the over throw of high speed paper feeding means to ensure accurate alignment of the paper at a predetermined position.

63764. Bristol Laboratories International, S.A. Process for the preparation of compositions suitable for increasing efficiency of animal nurture and compositions prepared thereby. Kanamycin is admixed with a solid diluent and the premix is incorporated into animal feed.

63765. A. Nadai. Dispensing means for liquid containers. Comprising porous reservoir member and a flexible, resilient and liquid permeable applicator membrane mounted in spaced confronting relation to the former.

63766. Aluminium Laboratories Limited. Incorporation of metal pigments in coating compositions. An aqueous dispersion consisting of a metallic pigment, a hydrocarbon solvent and a surface active agent.

63767. R. Rummel. Method and device for refining or purifying metals, particularly by means of air refining. Introducing in a bath of molten raw materials reaction media with uniform distribution over the bath and maintaining the bath in a turbulent motion.

63768. Chugai Seiyaku Kabushiki Kaisha. A method for the production of glucuronolactone from a polyuronide. Converting polyuronide into acetate by acetolysis and subjecting said acetate to hydrolysis.

63769. R. B. Fuller. Geodesic building structure. (May 21, 1957.) Generally of spherical form having a geodesic three-way grid pattern comprising an assembly of normally flat sheets.

63770. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of producing semi-conductive electrode systems. Comprising a semi-conductor body to which at least one electrode is alloyed which consists of an alloy of aluminium and at least one other component produced by the alloying process after which aluminium is provided on the alloyed electrode and fused therewith.

63771. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of producing semiconductor electrode systems. In which to a semiconductor body there are alloys at least two electrode bodies at least one of which contains an active impurity.

63772. Ciba Limited. New pharmaceutical compositions containing new pyrazole compounds. [Divided out of No. 59575 and ante-dated to February 6, 1957.] The composition comprises 40—80 per cent. of a pyrazolopyrimidine and a carrier.

63773. Ciba Limited. New cyanopyrazoles and process for their manufacture. α -cyano- γ -formyl-acetonitrile or a reactive aldehyde derivative thereof is reacted with a substituted hydrazine.

63774. American Screw Company. Extruding method and apparatus. Machining a blank into general conformity with the desired finished tool end but with end portions of greater thickness than desired.

63775. Huttenwerk Oberhausen Aktiengesellschaft. Process for refining metals in a rotary drum furnace. [Addition to No. 61370.] Combustion of CO is effected by blowing in oxygen through supplementary blast nozzles which project through the openings in the end walls of the drum furnace into the space above the metal bath.

63776. R. T. Hukki. An improvement in or relating to grinding. Subcritical speed of the tumbling load is obtained at a supercritical speed of the mill the tumbling load being from about 25 per cent. upto 60 per cent. on inside mill volume.

APRIL 18.

63777. Pending.

63778. Pending.

63779. Sterling Engineering Company Limited. Improvements in or relating to automatic firearms. (April 30, 1957.) Second spring mounted independently of trigger assists first spring to effect, return movement of sear on release of trigger. °

63780. Imperial Chemical Industries Limited. Process for the scouring of woollen or worsted yarns or fabrics. (April 23, 1957.) Treating with trichloroethylene to perchloroethylene at its boiling point followed by a mechanical treatment to eliminate solvent and finally treating with an aqueous medium for final removal of the solvent.

63781. RECHERCHES CHIMIQUES S.A. Process for the manufacture of propellant charging powder with low temperature coefficients. Characterised thereby that previously prepared powder element is subjected to simultaneous treatment with sensitizing agents and phelmatizing agents.

63782. W. R. Ames Company. Gate valve. Comprising in combination, inner and outer frame members for engagement with the opposite sides of the pipe wall around the opening and providing continuous support therefor.

63783. Void.

63784. E. M. Arthur. Improvements in hose clips or the like. In which the screwed spindle is freely mounted in the housing which is open at one end for receiving the screwed spindle and has an abutment at the other end.

APRIL 19.

63785. D. P. Basu. An apparatus for recording information in the form of a chart. Consisting of a platform along which a sheel of paper or like is moved by unrolling it from a fixed roller by a rotatable roller at opposite end, and recording devices supporting by a fixed shaft at spaced locations, on means provided on the platform.

63786. Void.

63787. Pending.

63788. British Insulated Callender's Cables Limited. Improvements in or relating to wire reeling devices. (April 24, 1957.) Of which two co-axial rotatably supported spindles are arranged one inside the other end are slidable axially relative to one another.

63789. Strategic-Udy Metallurgical and Chemical Processes, Ltd. Process for smelting titaniferous iron ores and the like for the production and recovery of metallic iron and a titanla-enriched product. Subjecting the charge consisting of titaniferous iron ore to reduction, and fluxing the charge exclusively with silica.

APRIL 21.

63790. Ciba Limited. New esters and a process for their manufacture. 3:20-dioxo-21-hydroxy-pregnane is reacted with tetrahydrophthalic-acid.

63791. Carter Products, Inc. 2-methyl-2--n-propyl-N-mono-substituted 1, 3-propane-diol dicarbamates. A monocarbamate is reacted with cyanic acid, or a carbamic acid ester or with phosgene and then with ammonia or with an isocyanate.

63792. Pending.

63793. Pending.

63794. Imperial Chemical Industries Limited. Process for printing cellulosic textile materials. Divided out of No. 60221 and ante-dated to April 16, 1957. Applying paste containing acid-binding agent and monoazo or polyazo dyestuff with at least one ionogenic solubilising group and 1:3:5 triazinyl-amino or substituted amino group containing at least one halogen group.

63795. Connollys (Blackley) Limited. Improvements in the packaging of wire. (April 25, 1957.) Comprising inner and outer concentric cylindrical walls, between which the wire is coiled.

63796. Columbian Carbon Company. Rubber compounding. In which carbon black is dispersed in the rubber while in latex form and the mixture thereafter coagulated.

63797. Dale Electric (Yorkshire) Limited. Improvements in or relating to cable drum cradles. Comprising a pair of spaced rollers carried by members of a frame and means for locking one of the rollers against rotation.

63798. The British Cotton Industry Research Association. Method and means for the automatic regulation of the continuous application of specified amounts of solids or liquids for coating and/or pregnating a moving sheet of material. (April 25, 1957.) Characterised in that the substance is supplied to the reservoir at a rate predetermined by the speed of movement of the sheet of material and the prescribed weight of substance per unit length to be applied thereto.

APRIL 22.

63799. R. P. Gupta and C. L. Gupta. Improvements in or relating to making fuel pellets or briquettes from fuel dusts, *e.g.*, from coal dust or charcoal powder and pellets or briquettes of fuel obtained thereby. Mixing fuel dust with kamala seed powder in the presence of water and compressing into pellets or briquettes.

63800. Imperial Chemical Industries Limited. New nitrogenous organic compounds. (April 26, 1957.) Void after publication. Reacting nitrous acid or nitrosyl chloride with a compound of formula $\text{NHR CO (CH)}_2 \text{ CO NHR}$ where R is a hydrocarbon or substituted hydrocarbon group.

63801. Imperial Chemical Industries Limited. New dyestuffs and process for their application to textile materials. (May 1, 1957.) Treating a water-soluble coloured compound containing at least one sulphonchloride group with ethylene imine.

63802. American Cyanamid Company. Preparation of a stable orally administrable poliomyelitis vaccine. Mixing a liquid suspension of an attenuated non-pathogenic poliomyelitis virus and comminuted non-hydrated gelatin.

63803. General Aniline & Film Corporation. Method of preparation of amides by reaction of amines with mixed anhydrides of boric acid and carboxylic acids. Reacting a mixed anhydride of boric acid and of an organic carboxylic acid with a primary or secondary amine.

63804. Pending.

63805. Casablancas High Draft Company Limited. Improvements in textile fibre drafting apparatus. (May 2, 1957.) The forward end of the upper cradle and lower tensor are adapted to interengage in the assembled position to determine the tensor spacing.

63806. Union Carbide Corporation. Desulfurization of iron with calcium carbide using afterblow. Desulphurisation of iron by introducing calcium carbide in a stream of carrier gas followed by injection or introduction of a stream of gas which is inert to melt.

63807. Colvilles Limited. Method of producing slag in fragmented form. (April 23, 1957.) Pouring slag to form a pool, spraying the slag pool with water to cause the slag cool, and allowing further cooling of the slag which effects fragmentation of the slag pool.

63808. Elektro-Thermit G.m.b.H. A method of producing prefabricated moulds for the welding of workpieces and apparatus therefor. Sand filled mould is precompacted by circular shaker and compaction completed by simultaneous action of circular shaker and overhead pendulum shaker.

63809. Ciba Limited. A new ester and process for its manufacture. A reseritic acid alkyl ester is esterified with a carbalkoxy-ferulic acid.

63810. Robert Bosch G.m.b.H. Improvements in or relating to electrical generator regulating devices, especially for mechanically propelled vehicles. (January 23, 1958.) Comprising a resistive member, a non-linear current conductor which becomes increasingly conductive when voltages applied exceed kink voltage and an electromagnetic potential relay having a potential coil and a switch arm actuatable according to generator voltage and current flowing through said conductor to regulate the generator.

63811. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Method of preparing glass fibres. Comprising the steps of forming a viscous aqueous system comprising water, at least one oxygen-containing compound of silicon comprising colloidal silicate particles.

63812. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Method of preparing aqueous dispersions of linear polysilicate fibrils. Having a molecular weight of at least 5,000 which comprises the steps of preparing an aqueous solution containing sodium silicate and/or potassium silicate.

63813. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improved method of preparing glass fibres. From a viscous siliceous aqueous composition which comprises directing a stream of the composition downwardly through an orifice.

63814. Montecatini Societa Generale Per L'industria Mineraria E Chimica and K. Ziegler. Catalytic compositions for use in the polymerization of vinyl monomers, and process for preparing them. Said composition comprising an alkyl compound and a solid carrier material having absorbed thereon.

63815. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of manufacturing electrically insulating panels having a conductive pattern and panels manufactured by such methods. In which an insulating layer containing a thermosetting resin hardened in part is provided on each side with a metal layer, parts of which in the form the conductive pattern are covered with a protective layer, the parts which are not covered being removed by etching.

63816. Unilever Limited. Improvements relating to presses for producing objects from plastic material. (May 2, 1957.) A press for producing objects from plastic material having two co-operating dies, at least one of which is provided with a continuous inside surface of resilient.

APRIL 23.

63817. Esso Research and Engineering Company. Controlled availability fertilizer compositions. Incorporating in a commercial fertilizer from 3 to 10 per cent. of solid petroleum hydrocarbon.

63818. Olin Mathieson Chemical Corporation. Carbamic acid esters. A cyclic carbonic acid ester is reacted with ammonia.

63819. Imperial Chemical Industries Limited. Process for the manufacture of dyestuffs of the phthalocyanine series. (May 1, 1957.) Reacting an aqueous suspension of copper phthalocyanine poly-3-sulphonchloride with an amine of the formula $\text{NH}-\text{CH}_2-\text{CH}_2 \cdot x$ where x is Cl, Br or a sulphato group.

63820. Imperial Chemical Industries Limited. New thermoplastic moulding compositions. (May 8, 1957.) Mixture of hard non-rubbery and rubbery copolymer the mixture of copolymers containing 25 to 90 per cent. by weight of non-rubbery copolymer.

63821. Imperial Chemical Industries Limited. Textile treatment process (June 24, 1957.) Finishes for improved resistance to wet treatments comprising water sensitive finishing agent and mono or dihalogeno 1:3:5-triazine.

63822. Imperial Chemical Industries Limited. Process for removing metal-containing catalyst residues from hydrocarbon polymers. (May 31, 1957.) The polymer is treated with an amine in the presence of a solvent and of an aluminium halide or aluminium alkyl halide and the solid polymer is separated from the solvent.

63823. C. C. Wakefield & Company Limited. Improvements in or relating to lubricating compositions. (April 29, 1957.) Comprising (a) neutral diester of azelaic or sebacic acid and branched-chain monohydric alcohol or mixture thereof minor proportion of (b) water insoluble polyoxyalkylene glycol ether or mixture thereof and (c) dibenzothiazine anti oxidant.

63824. Etablissements Clin-Byla Societe anonyme. Substituted β -naphthols and compositions containing the same. β -naphthol is heated with a 2-halogeno-cyclohexanone in the presence of an acid acceptor.

63825. J. R. Geigy A. -G. Basic derivatives of azepines. Reacting in presence of acid binding agent an iminostilbene compound with reactive ester of amino alcohol.

63826. Conveyancer Fork Trucks Limited. Improvements in fork lift and like industrial trucks. Wherein the drive motors of the forward wheels are controlled by switch means associated with the steering wheel or its steering mechanism.

63827. Whessoe Limited. Improvements in vessels having an internal structure supported therein. Supported by a plurality of vertical columns spaced around the periphery of the structure, columns being capable of flexing in a radial direction in response to force.

63828. Whessoe Limited. Improvements in vessels having an internal structure supported therein. Support members being capable of rocking movement as a whole in a radial vertical plane relative both to the internal structure of the shell.

63829. J. H. Ferner & Co. Limited. Improvements in or relating to production of power transmission and conveyor belting. (April 30, 1957.) [Addition to No. 53579.] The woven fabric has a width which is a multiple of the width or widths of the belting it is woven to produce and the gelled, impregnated woven fabric is cut to form belting of the required width or widths.

63830. Pending.

63831. Deutsche Gold Und Silber Scheideanstalt Vormals Roessler. Process for the production of substituted triazines. (March 5, 1958.) Dimethoxy chlorotriazine is reacted with a thiocyanate salt of a light metal.

63832. General Electric Company. Improvements in or relating to compressor. Each of stator vanes has a shaft extending through the casing circumferential support rings extending about the casing and provided with means for supporting the rows of stator vanes.

63833. Metropolitan-Vickers Electrical Company Limited. Improvements in and relating to capacitor voltage dividers. (April 29, 1957.) Comprising an electrical conductor with surrounding capacitive insulation including a conducting band, a capacitor connected in parallel with either a portion of said capacitive insulation or when said band is not operable at earth potential connected in parallel with the capacitance of the band to earth.

63834. The British Drug Houses Limited. Method for the preparation of 3 β -hydroxy-6-methyl-steroids. (May 3, 1957.) 6- β -hydroxy or 6 β acyloxy-3:5-cyclosteroid is oxidised, the resulting 6-oxo-3:5-cyclosteroid is treated with a methyl organometallic reagent and the product is rearranged.

APRIL 24.

63835. Aktiebolaget Bofors. Method of producing N-alkyl- α -piperidine carboxylic acid anilides. Picolinic acid salt of a dialkyl or trialkyl aniline is treated with a water absorbing agent at a temperature above 85°C. and the product is hydrogenated and alkylated.

63836. P. Runchhoddas. Improvements in or relating to spinning wheels. [Addition to No. 56480.] The drafting roller consists of a thin shaft on which are fixedly and spacedly mounted two rubber covered ferrules.

63837. Libbey-Owens-Ford Glass Company. Glass sheets bending mold. Concavely carved triangular shaping rail having a shaping surface and a sheet support mounted adjacent the apex of the rail and having a surface forming an extension of said surface and another surface disposed at an angle to second-said surface.

63838. Licentia-Patent-Verwaltungs-GmbH. Process for the production of an electric winding insulation. Preparing a winding using a mica layer insulation with resinous binding agent which is solid and not sticky at room temperature such as epoxide resin.

63839. Owens-Corning Fiberglas Corporation. Improvements in or relating to treatment of fibrous glass and fibrous glass fabric. Fluid not supporting combustion is introduced into heating zone to prevent burning and maintain positive pressure.

63840. Robey & Co. Limited and A. Crompton. Improvements in brake systems of winding engines, haulages, and other rotating machines. Having two or more arcuate brake shoes, the shoes when in pairs being diametrically opposed to each other on opposite sides of brake drum or alternatively brake shoes are so disposed around brake drum that movement of shoes is in radial direction with respect to brake paths of rotating element, each shoe guided for linear movement, and means for simultaneously urging brake shoes into contact with brake drum.

63841. Wolf Electric Tools Limited. Improvements in electric motors. (April 25, 1957.) A rotor for an electric motors comprising a laminated carrying windings and secured to a shaft.

63842. Lawes Brothers Limited and Abrasive Developments Limited. Process for treating the surface of plastics material to give a matt surface. (April 25, 1957.) In which a mixture of abrasive particles and water are projected on the surface of the plastic material at a velocity to produce a multiplicity of fine cuts in the surface to give a matt finish.

63843. Nitto Kagaku Kogyo Kabushiki Kaisha and Zaidan Hojin Nitto Rikagaku Kenkyusho. A process for the manufacture of cyanuric chloride. Introducing dry hydrogen cyanide gas and dry chlorine gas into activated carbon catalyst fixed bed and reacting the gases under heat.

63844. J. J. Stone & Company (Deptford) Limited. Improvements relating to battery-charging systems. (May 23, 1957.) In which a regulator control winding is supplied through rectifiers with voltages varying with the generator alternating voltage and the generator alternating current respectively, the voltage varying with the said current is applied across a lamp resistance and the said winding in series.

APRIL 25.

63845. American Steel Foundries. A railway car truck. Having a side frame provided with spaced columns which present opposed friction surface and which receives therebetween a spring supported bolster.

63846. P. Runchhoddas. Improvements in or relating to spinning wheels. [Addition to No. 59324.] The jockey pulleys are mounted on one arm of an angle-shaped pin, the other arm of the said pin being engaged by hook or eye of a coil spring wound around a fixed pin.

63847. Void.

APRIL 26

63848. Void.

63849. Automatic Telephone & Electric Company Limited. Improvements in mounting racks for electrical equipment used in telephone or like systems

(May 25, 1957.) Face cover arrangement comprising a plurality of flat cover-plates of transparent material arranged for mounting one above the other and being provided with interlocking rebates along the upper and lower edges.

63850. Automatic Telephone & Electric Company Limited. Improvements in stabilised feedback thermionic tube oscillators. (May 8, 1957.) Void after publication. Arranged in the form of an impedance.

63851. Automatic Telephone & Electric Company Limited. Improvements in electrical coils wound with fine wire. (May 2, 1957.) Connection of an end of fine wire to a hollow termination tag of the former is effected by wrapping the end around a short length of thicker wire and passing at least the wrapped portion of the latter into the hollow of the termination tag and applying solder.

63852. Aktiebolaget Svenska Flaktfabriken. A volume governor for a flowing gaseous medium. Flow passage formed such that in any position of movable wall, length of flow passage is considerably larger than its hydraulic diameter which is such that the Reynold's number does not exceed 2000 at the maximum flow velocity of gas medium.

63853. Aktiebolaget Svenska Flaktfabriken. A device for inducing and mixing by ejecting action secondary air into a current of primary air. Having nozzle means with many narrow slots mutually parallel and close and constituting throats of corresponding number of flow passages with same cross-section area as the slots the flow passages being given such a hydraulic diameter with respect to used medium velocity that Reynold's number does not exceed 2000.

63854. Massey-Ferguson Inc. Improvements relating to control mechanism in tractors for hitched implements. (September 30, 1957.) Mechanism includes a control valve which when in a neutral position closes the flow of hydraulic fluid to and from a actuator.

63855. Massey-Ferguson Inc. Improvements relating to control mechanism in tractors for hitched implements. (September 30, 1957.) Having a valve controlled hydraulic actuator for raising and lowering an earth-working implement.

63856. Canadian Industries Limited. Alkylated styrene copolymers and coating compositions containing such copolymers. (May 1, 1957.) A linear thermoplastic copolymer of more than 50 parts of an alkylated styrene and atleast 15 parts of a methyl or ethyl ester of acrylic or methacrylic acid and 2 to 14 parts of acrylic or methacrylic acid.

63857. Imperial Chemical Industries Limited. 12-gauge cartridge cases. (May 3, 1957.) Tubular wall comprises a high molecular weight polymer, the tapered wall thickness varies between 0.026" to 0.032".

63858. Imperial Chemical Industries Limited. Process for the production of thermoplastic polymeric materials. Comprising polymerising 1 to 9 parts by weight of methacrylate in the presence of a rubbery copolymer.

63859. H. Ohnishi. Automatic stopping and alarming apparatus for stopping spinning machine at the instant the sliver is broken. Electric circuit for stopping machine, including electric switch operated by rotation of a feeler situated in suction pipe, the feeler being activated by broken sliver sucked in by the air stream and striking thereagainst.

63860. Gavaert Photo-Producten N. V. Production of linear aromatic polyesters. (November 13, 1957.) Isophthaloyl chloride dissolved in an organic liquid is condensed with a metal phenolate of a bis-phenol.

63861. The British Oxygen Company Limited. Means for producing a spray of gas-entrained liquid. (May 10, 1957.) Comprising a container for a liquid, means for connecting the container to an external source of gas under pressure, a valve housing detachably mounted on the container.

63862. Newton, Chambers and Company Limited. An improved device for dispensing fluent materials. (May 8, 1957.) Comprising a support consisting

of upper and lower parts, a separate storage receptacle for holding fluent material.

63863. Dunlop Rubber Company Limited. Improvements in or relating to apparatus for the manufacture of pneumatic tyres. (May 1, 1957.) Comprising a collapsible building drum, cylindrical supporting members located coaxially one at each end of the drum, an annular air bag carried on each member to support an end of tyre building fabric projecting beyond the end of the drum.

63864. Void.

63865. Council of Scientific and Industrial Research. A tensioning screw jack. Which is mounted on a reaction frame, a grip to hold wires or the like object or objects to be pulled.

APRIL 28.

63866. Aktiebolaget Astra, Apotekarnes Kemiska Fabriker. A compressible container for liquids preferably used as an ampoule. Characterised in consisting of at least two substantially tetrahedronal receptacles made from flexible material and being connected along one edge for communicating with each other.

63867. Societe Des Usines Chimiques Rhone-Poulenc. Improvements in or relating to siloxane elastomers. 0.5 to 10 per cent. by weight of methyl triacetoxysilane is added to a composition of liquid diorganopoly siloxanes having a linear structure, a viscosity of 5,000-500,000 c. at 25° C. and at least 0.1 per cent.-OH grouping.

63868. Imperial Chemical Industries Limited. Manufacture of polymeric materials. (May 10, 1957.) Castor oil citrate is reacted with polyisocyanates in the presence of a catalyst and water.

63869. Rohm & Haas Company. Plant hybridizing compositions. Comprising as its active ingredient a polyvalent metal salt of 2:3-dichloroisobutyric acid and a carrier therefor.

63870. H. G. Poole. Improvements in or relating to tractor-trailer towing connections. Comprising a combination a beam which is hinged at its forward end on a support on the tractor and a tow bar rigidly secured to the trailer and a connecting member located between the beam and the tow bar.

63871. Metropolitan-Vickers Electrical Company Limited. Improvements in and relating to electric surge diverters. (May 9, 1957.) Having in a series circuit at least one spark gap and a non-linear resistance and contacts of a circuit breaker of the vacuum connected in series with said series circuit.

63872. General Steel Castings Corporation. Improvements in and relating to railway vehicle trucks. A bolster mounted on truck framing to pivot about a vertical axis at the centre of said framing and upright springs adapted to support a vehicle body seated on said bolster.

63873. H. Stauffert. Bearing for high-speed spindles, particularly for spinning and twisting machines. At least one chamber for receiving a damping agent, and that this chamber forms a composite part of the respective bearing.

63874. Void.

63875. Ciba Limited. Process for dyeing organic products of high molecular weight with pigment dyestuffs. Organic products of high molecular weight are dyed by anthraquinone dyestuff.

63876. P. G. Rohland. Improvements in methods and means for joining and holding wire cables and loops thereof. Using sleeve-shaped clamps which are to be undetachably pressed onto the cable joints, each clamp having a direct extension from the clamp body in the shape of a straight hollow cone end with a centre outlet.

63877. M-R-S Manufacturing Company. Earth moving machine. Carrying means being pivotally mounted on said frame means for tipping toward the open side for dumping earth.

63878. Void.

APRIL 29.

63879. Void.

63880. M. V. Chitale. An intermittent film drive mechanism for projector. Comprising a claw with teeth on one side which are designed to mesh with perforations on the film, the claw being guided in a slide, the claw and the slide are actuated with separate rounded equilateral triangle shaped cams fitted on an axle.

63881. Hickson & Welch Limited. Improvements in or relating to new stilbyl-triazole optical whitening agents, compositions containing the same and material treated therewith. (December 20, 1957.) [Addition to No. 62893.] An O-aminoazodyl is oxidised to a triazole compound.

63882. Hickson & Welch Limited. Process for the production of new compounds for use as optical whitening agents, compositions containing the same and materials treated therewith. (January 13, 1958.) [Addition to No. 62893.] A bis-ortho-amino azodyl is oxidised to ditriazole-compound.

63883. Olin Mathieson Chemical Corporation. Inhalation anesthetics and method of preparing the same. Composed of a constant boiling mixture of about 40 mole per cent. of diethyl ether and about 60 mole per cent. of trifluoromethylbromochloromethane.

63884. Merck & Co., Inc. Process for purifying and concentrating poliomyelitis viral substances. (May 27, 1957.) Comprising adding nucleic acid to the poliomyelitis viral substance containing fluid and adjusting the pH to between about 1—4 and recovering the precipitated viral substance.

63885. Merck & Co., Inc. Improved process for recovering novobiocin (July 4, 1957.) Comprises adsorbing novobiocin-active compound upon a particulate ion exchange resin and eluting from ion exchange resin the novobiocin-active compound adsorbed thereon.

63886. D. M. Morgenstern. Apparatus for and method of die casting under vacuum. Wherein a charging chamber is in constant communication with the cavity defined by the dies and the dies are surrounded by an enclosure which can be opened and closed, means being provided for creating a vacuum of relatively high degree within the enclosure.

63887. The British Oxygen Company Limited. Electrodes and methods of electric arc cutting. (May 6, 1957.) Non consumable electrode comprising a rod which is stepped to form an electrode tip having a uniform cross-sectional area which is smaller than that of main part of the electrode.

63888. Imperial Chemical Industries Limited. Ethylene polymerisation. Subjecting gaseous ethylene to photochemical radiation in the presence of a polymerisation catalyst at pressure above 500 atmosphere.

63889. Clayton Dewandre Company Limited. Improvements in or relating to heat transmitting tubes. (May 24, 1957.) Feeding both a binding wire and a bonding wire of solder or brazing metal through the wire coil during the winding operation.

63890. Siemens & Halske Aktiengesellschaft. Circuit arrangement for teleprinter storage exchanges. (July 18, 1957.) Transmitting means associated with serial number transmitter allocated to required subscriber's station and which are adapted to select one subscriber's station out of a plurality of such stations connected to omnibus line and which produce a teleprinter pulse combination.

63891. Siemens & Halske Aktiengesellschaft. Circuit arrangement for teleprinter installations. (January 6, 1959.) At points of transition from signalling circuits common to both directions of transmission to signalling circuits separate for each direction of transmission are arranged change over means operating according to nature of busying or message and connect first-said circuits to second-said circuits.

63892. Dipl. Ing. Dr. Techn. M. Gerhold. Method of and apparatus for conversion of gaseous and liquid hydrocarbons. Passing hydrocarbons in gase-

ous state together with free hydrogen and at an elevated temperature over a catalyst and then passing the resulting gases to a conversion zone at elevated temperature.

63893. Braunschweigische Maschinenbauanstalt. Improvements relating to apparatus for extracting bleaching or washing of animal and vegetable materials. (April 14, 1958.) A stirring zone at the lower end of the tower having a screen at the bottom into which zone material mixed with water is pumped, rotatable shaft carries a plurality of blades.

63894. D. P. Asar. Venetian blinds. [Addition to No. 62437.] Slat end clip comprises a three pronged piece with central prong at slightly different plane than the end prongs so as to form a jaw and on each of these prongs is formed an engagement lug or pin, the pins on the end prongs and central prong facing each other.

63895. E. C. De Garis. An improved water closet. (May 2, 1957.) An anti-up ash ledge is positioned at the rear of the toilet pan, which ledge slopes down in a forward direction just below the water level.

63896. The British Thomson-Houston Company Limited. Improvements in and relating to electric control arrangement for conveyor systems. Comprising a conveyor, a means having a movable member for weighing material carried by conveyor per unit of area and an adjustable feeding means.

63897. The British Thomson-Houston Company Limited. Improvements in and relating to mechanical feeding systems. First means for measuring the weight of material moved by conveyor per unit of time and second means automatically controlling material flow passage in dependence upon result of former means.

63898. The British Thomson-Houston Company Limited. Improvements in and relating to the control of feeding movements. A variable reactor having a movable core interconnected with a movable member of a measuring means.

63899. Sando Iron Works Co., Ltd. Continuous shifting apparatus for cloth by stagnation and forwarding. Combination of stagnation tank, feeding rollers and shaking means, pairs of rotary shafts on both sides of stagnation tank, cloth receiving plates projecting within the tank and provided on rotary shafts, a solution vessel and guide rollers in solution vessel for taking out cloth.

63900. Ciba Limited. Aminophenylmercapto compounds and a process for their manufacture. -3-thio-pyridine is reacted with a halogeno-phenyl compound of which the halogen atom is activated by a nitro group in ortho or para position to the halogen atom and subsequently nitro group is reduced to amino group.

63901. Cable Covers Limited. Improvements in or relating to clips. For attachment to rod-like members such as conductors comprising a housing adopted to seat at its base and a gripping member movable within the housing.

63902. Siegfried Limited. Process for preparing carbamic acid esters of aryl alkyl alcohols. Saturated or unsaturated, straight or branched chain, substituted or unsubstituted primary aralkyl alcohols are converted into their carbamic acid esters by methods known *per se*.

APRIL 30.

63903. Void.

63904. Council of Scientific and Industrial Research. A process for recovering zirconium dioxide from zircon. Sintered mats of zircon and potassium silico-fluoride is leached to get a solution of potassium zirconium fluoride, the solution is thereafter subjected to electrolysis in a diaphragm cell followed by drying and ignition of the product of electrolysis.

63905. The Chloride Electrical Storage Company Limited. Improvements relating to positive plates for lead-acid electric accumulators. (June 27, 1957.) Made from an alloy containing calcium; tin aluminium and lead, characterised in this that the plates are coated with lead.

63906. Hotchkiss-Brandt. Improvements in and relating to a self-propelled projectile. Comprising an ejectable obturating and igniting device which is disposed in the nozzle of ejection of the self-propelling gases.

63907. P. S. Krishnamurthi. Improvements in or relating to electric fans. Having shaft with an inlet through which electric wires to be led to inside of fan motor casing, a passage within the casing through which wires are drawn from inlet on the shaft to a level below fan blades a bracket for fixing electrical appliance fitted at said level and an outlet provided on the shaft through which the wires pass out to be led to the electrical appliance.

63908. Siemens & Halske Aktiengesellschaft. Arrangement for setting variable line feeding for the platen of a page teleprinter. (July 2, 1957.) Transmission means having variable transmission ratio are arranged between driving member effecting the line feed and the platen adjusting device.

63909. Siemens & Halske Aktiengesellschaft. Improvements in or relating to shaft arrangement having mechanically operated centrifugal speed control means. (July 12, 1957.) Mechanical torque amplifier in the speed controlling centrifugal system is introduced between the latter and the driven shaft.

63910. Metropolitan-Vickers Electrical Company Limited. Improvements relating to electrical turbo generators. (May 3, 1957.) Comprising a plurality of hollow conductors, means for circulating water through said hollow conductors between manifolds located at each end of the generator.

63911. N. V. Phillips' Gloeilampenfabrieken. Improvements in or relating to methods of producing semi-conductor electrode systems. In which parts of the system are removed by the action of a medium which is projected onto these parts while other parts are protected against the action of this medium.

63912. D. J. Dastur. Improvements in or relating to gas turbines. Rotor vanes are helically arranged and a separate combustion chamber is provided and said chamber is controlled by one more adjustable valves.

MAY 1.

63913. Alembic Chemical Works Company Limited. Improvements in or relating to preparation of pure crystalline potassium and sodium penicillin G salts. Treating organic solvent extract containing acid penicillin G with saturated solution of potassium acetate.

63914. Void.

63915. C. Gupta. Method of producing resinous compositions for sodium reduction in human-therapy. Comprising a solid water insoluble cross-linked polyacrylic carboxylic cation-ion-exchange resin between 60 to 90 per cent. in the hydrogen form and between 40 to 10 per cent. in the potassium form in extremely finely divided particle size.

63916. Metropolitan-Vickers Electrical Company Limited. Improvements relating to armature windings for dynamo-electric machines. (May 2, 1957.) Having an alternating current winding and a multi-slot core therefor, said winding including two parallel connected circuits per pole per phase in each of the phases of the winding.

63917. Metropolitan-Vickers Electrical Company Limited. Improvements relating to armature windings for dynamo-electric machines. (May 2, 1957.) Having an alternating current winding and a multi-slot core therefor, said winding including two parallel connected circuits per pole per phase in each of the phases of the winding.

63918. Metropolitan-Vickers Electrical Company Limited. Improvements relating to armature windings for dynamo-electric machines. (May 2, 1957.) Having an alternating current winding and a multi-slot core therefor, said winding including two parallel connected circuits per pole per phase in each of the phases of the winding.

63919. Metropolitan-Vickers Electrical Company Limited. Improvements relating to armature windings for dynamo-electric machines. (May 2, 1957.)

Having an alternating current winding and a multi-slot core therefor, said winding including two parallel connected circuits per pole per phase in each of the phases of the winding.

63920. Metropolitan-Vickers Electrical Company Limited. Improvements relating to armature windings for dynamo-electric machines. (May 2, 1957.) Having an alternating current winding and a multi-slot are therefor, said winding including two parallel connected circuits per pole per phase in each of the phases of the winding.

63921. Pilkington Brothers Limited. Improvements in or relating to the manufacture of flat glass. (May 3, 1957.) Maintaining a protecting atmosphere over the bath to avoid the presence of glass contaminants at the interface between glass and bath.

63922. S. Stockland. Support structures for agricultural implements or machines. Adapted to be connected to the pitch linkage of a tractor or the like and to be lifted by means of said hitch linkage.

63923. Libbey-Owens-Ford Glass Company. Apparatus for bending glass sheets. Comprising a pair of movably mounted mold sections, sheet support means, arms operably connected to mold sections and links to arms.

63924. Libbey-Owens-Ford Glass Company. Mold for bending glass sheets. Comprising a plurality of mold sections including spaced movably mounted end mold sections and an intermediate mold section and sheet support means including a support member.

63925. H. F. Maso and J. N. Masci. Sterilized package for surgical dressing. Comprising inner highly compacted rupturable layers closed together around contents by at least one adhesive resin seal line.

63926. W. R. Schmitz. Apparatus for treating material for making artificial fibers. Comprising a container means for injecting a solution into the container such that entrapped gases are released and means for removing the deaerated solution.

63927. Veb Leuna-Werke "Walter Ulbricht". Process for the polymerization of olefins. In presence of alkylanyl etherates with trialkyl aluminium, alkyl aluminium halide or mixtures thereof.

MAY 2.

63928. Monsanto Chemicals Limited. Improvements relating to concrete. (May 7, 1957.) Producing concrete in which moist cement composition containing cement and pellets of a thermoplastic synthetic resin is prepared and allowed to harden.

63929. Merck & Co., Inc. Ion exchange recovery process. (August 1, 1957.) In an ion exchange recovery process, there is need as elutrient a mixture of a water-miscible organic solvent, water and a salt which is soluble in said mixture.

63930. The Dayton Rubber Company. Fibre processing unit and method for manufacturing same. The apron having an outwardly disposed fiber-contacting surface and inwardly disposed surface having protuberances thereon.

63931. Void.

63932. Phrix/Werke Aktiengesellschaft. Process for the manufacture of viscose. Subjecting cellulose to enzymatic degradation prior to conversion to viscose.

63933. Asta-Werke Aktiengesellschaft. A process of preparing new mixed alcoholates-phenolates of aluminium. (May 22, 1957.) Reacting aluminium trialcoholate with mono or dinitro phenyls or mono or di-nitro-1-naphthols.

63934. Void.

63935. Voltas Limited. A seed sowing device particularly a dibbling planter. A knock off plate to remove the excess and from the opening holding

seed and means for causing the seed plate to be moved to a position where the opening registers with a chute in the hopper base.

63936. Voltas Limited. Cultivating implements frame. In which the connecting bar has two faces one a vertical face on which shanks of front row of tines are fitted and a second face inclined towards the rear on which face shanks or rear row of tines are fitted, such that the second face forms an obtuse angle with the vertical line extending above the junction of the two faces.

63937. Commissariat A L'Energie Atomique. Improvements in the manufacture of microporous metallic tubes consisting mainly of nickel. Crushing in moist state nickel, coating the grains formed with a binder volatile at 200-400° C. extruding the paste thus obtained to give it the form of tubes.

63938. Pending.

63939. The Director, Technological Research Laboratories, Indian Central Jute Committee, Calcutta. Book-binding cloth, and rexine type of material from jute fibre. Producing a uniform web from jute waste, impregnating the same with a vulcanisable rubber latex or synthetic bonding material, squeezing the same and then vulcanizing and/or calendering.

MAY 5.

63940. Void.

63941. Void.

63942. Void.

63943. Void.

63944. Void.

63945. Void.

63946. Void.

63947. Void.

63948. R. V. Davies. Cycle frames. (May 30, 1957.) Seat tube, crank bracket is connected by stays to the rear fork members and is shorter than usual and the upper end is lower than that of head tube.

63949. Wyandotte Chemicals Corporation. Process for preparing precipitated products. Characterised by gradually precipitating said particles from liquid solution in a field of anti-compositing forces.

63950. Stamicarbon N.V. Process and apparatus for blowing off a filter cake in filter apparatus. In which filtration is effected by means of a pressure difference between the spaces on both sides of filter surface.

63951. Phillips Electrical Company Limited. Messenger supported aerial cable. Comprising a plurality of insulated conductor and a messenger wrapped in a spiral path around the conductor and also support it.

63952. Merck & Co., Inc. Antibiotic purification process. (August 19, 1957.) Adding to fermentation broth during fermentation a particulate ion exchange resin capable of adsorbing the antibiotic.

63953. Imperial Chemical Industries Limited. New monoazodyestuffs. (June 26, 1957.) Cyanuric halide is reacted with a diazomium compound of a naphthylamine sulphonic acid and a naphthol.

63954. The Yale and Towne Manufacturing Company. Lifting mechanism for industrial trucks. Leverage system, is mounted for swinging movement to elevate the load carriage.

63955. The Yale and Towne Manufacturing Company. Improvements in or relating to the mounting of the load platform or load forks of industrial trucks. Wherein the bracket is forwardly fitted relative to the vertical when the normally vertical leg of the load member is vertical.

63956. Siemens-Reiniger-Werke Aktiengesellschaft. Improvements in or relating to X-ray examination units. (April 15, 1958.) Couch pivotable about horizontal axis by means in first support, a second support of U-shape one limb of which resting on floor while other limb forms a support for couch when in horizontal position open end of U being directed towards plane in which stand is displaceable and the supports fixedly positioned and rigidly secured to guiding means along which stand is displaceable.

63957. The Coppee Company (Great Britain) Limited. Improvements in and relating to apparatus for washing coal ore or the like. (May 6, 1957.) Washing or stratifying coal or ore by a device which controls the depth of the shale bed, the device having a shale extractor for removing shale from the bed.

63958. Lepetit S.p.A. 3, 3-disubstituted-2-azetidinones. (May 6, 1957.) α : α -disubstituted- β -aminopropionic acetyl chloride is treated with anhydrous ammonia or a tertiary amino base.

63959. Lepetit S.p.A. 3, 3-disubstituted-2-azetidinones. (December 11, 1957) Reacting α : α -disubstituted- β -amino propionic acid ester with alkyl magnesium halide.

63960. Ciba Limited. Layer form structures of improved resistance to light containing aminoplasts. Containing an aminoplast in conjunction with 2:4-dehydroxybenzoyl-furan.

63961. Ciba Limited. New dioxazine dyestuffs and process for their manufacture. Wherein a dioxazine derivative is treated with a non-sulfonating condensing agent or with a reactive derivative of a substituted benzoic acid or aromatic carboxylic acid.

63962. G. Notzel. Edge protectors for boards, panels and the like and method and means for making same. Characterised by that an elongated strip for covering the edge surface of the board or plate has a central longitudinal web thereon and extending at right angle thereto.

63963. I. Marcovitch and J. Marcovitch. Improvements in and relating to portable gas cookers, burners and the like. Including a gas reservoir and valve means located within the reservoir the valve being regulated by external handle means.

63964. Void.

63965. Void.

63966. Ciba Limited. 1, 2, 4-benzothiadiazine derivative and process for its preparation. 5-trifluoromethyl-2:4-disulfamylaniline is reacted with formic acid or an amide or an orthoformic acid ester.

63967. Void.

63968. Void.

MAY 6.

63969. Oleo Pneumatics Limited. Improvements in or relating to buffers for railway, tramway and like vehicles. (May 16, 1957.) Comprising stem extending into one end of a tubular guide through a split annular member mounted on the said guide.

63970. Westinghouse Brake & Signal Company Limited. Improvements relating to remote control systems. [Addition to No. 62919.] Wherein the positions of control devices at the control office and the positions of the apparatus in the outlying areas are scanned continuously by counting chains situated respectively at the control office and in the outlying areas.

63971. Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen ENERGIA. Projectile. Comprising a charge holding body, an explosive charge, a percussion fuze in the nose of projectile means for transmitting fire from said fuze to a rear detonator, a detonator-locking device

63972. Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen ENERGIA. Encased projectile. Having an empennage and

being enclosed within a cartridge case, the pins of the empennage extending, at the rear, beyond the end of the tail which carries the empennage. The projectile and its case comprising means for securing them together in a determined angular position.

63973. J. R. Geigy A.-G. Process for the production of N'-substituted N-sulphonyl ureas. Reacting thiophene sulphonamide with an isocyanate in presence of condensing agent and partially hydrolysing the product.

63974. Olin Mathieson Chemical Corporation. Process for the preparation of 10-(oxygenated-piperazino) lower alkyl-trifluoromethylpheno-thiazines and their salts. A trifluoromethyl phenothiazene is reacted with a piperazine derivative.

63975. I. J. Petranek. Trailers, semi-trailers or the like. Including a device for transmitting to its wheels or caterpillar tracks the power from the engine of the traction vehicle.

63976. Libbey-Owens-Ford Glass Company. Method and apparatus for bending glass sheets. Comprising supporting the sheet adjacent an end thereof while heating the sheet to bending temperature, lifting and bending the sheet end engaging inwardly of the point of support.

63977. Institut Francais Du Petrole, Des Carburants Et Lubrifiants. Improvements in or relating to the production of 4:4-dimethyl-meta-dioxen. (March 21, 1958.) By reacting a mixture of alephatic hydrocarbons under a pressure such that the partial pressure of isobutene in the mixture is from 1/50 to 15 atmospheres with formaldehyde in the presence of a strong mineral acid.

63978. Kowa Kogyo Kabushiki Kaisha (Known as Howa Machinery, Limited). Improvement of coiler gear for packing sliver into cans. A pair of belt driving rollers arranged at the centre of coiler gear, a pair of tension rollers arranged at the position of sliver delivering circle, and a pair of endless belts arranged between said two kinds of rollers.

63979. Ciba Limited. New azo-dyestuffs and process for their manufacture. Two molecular proportions of a primary monamine free from groups imparting solubility in water is condensed with one molecular proportion of dihalide of a dicarboxylic acid.

63980. Ciba Limited. A new sulphonamide derivative and a process for its manufacture. 3-(para-amino-benzene-sulfonamido)-2-phenylpyrazole is reacted with formaldehyde in the presence of a dilute acid.

63981. Void

63982. Ciba Limited. Thiazolines and process for manufacturing same. Reacting 1, 3-diphenyl thiourea with halogenmethyl-alkyl-ketone.

63983. Ciba Limited. New 2'-thioparabanic acid derivatives and process for their preparation. Treating 1, 3-diphenyl-thiourea with oxalic acid.

63984. Ciba Limited. Imino compounds and process for their manufacture. A-1:3-diphenylthiourea is reacted with an acetic acid.

63985. Ciba Limited. 2-phenyl-imino-3-phenyl-thiazolidines and process for the manufacture thereof. 1:3-diphenyl thiourea is reacted with a reactive ester of 1:2-ethane diol.

63986. Ciba Limited. A new antibiotic designated as A 9828, its cleavage products and a process for the manufacture of these compounds. Aerobically cultivating a strain of streptomyces griseus strain A 9828 in an aqueous nutrient medium.

63987. Ciba Limited. New dipiperidyl-alkanes and process for their manufacture. Hydrogenating di-pyridyl-di-phenyl-alkanes.

63988. Void.

MAY 7.

63989. Pending.

63990. J. R. Geigy A.-G. Compositions for printing and dyeing textiles. (March 5, 1958.) Pigment in aqueous dispersion, a water-immiscible and organic solvent-soluble thermosetting emulsified amino-aldehyde resin in organic solvent solution, a protective colloid, an emulsifying agent and a water dispersion.

63991. The General Electric Company Limited. Improvements in or relating to impulsing mechanisms for telephone dials. (May 24, 1957.) Which is of the kind employing electrical impulsing contacts, a rotatable shaft for engagement by the finger plate of a telephone dial, a cam plate carried by the shaft for actuating the impulsing contacts, a coiled spring for returning the shaft to a predetermined rest position.

63992. Ing. Josef Buttger. Improvements in or relating to internal combustion engines. Characterised in that one of the fuel jets emanating from the nozzle is directed towards the centre of the piston.

63993. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of manufacturing monocrystalline bodies particularly of refractory materials. The melt contained in a crucible is slowly cooled down while its surface is locally maintained at a temperature little lower than that of the remaining part of the melt.

63994. Metropolitan-Vickers Electrical Company Limited. Improvements relating to clutches. (May 8, 1957.) Comprising in combination two rings of clutch teeth fixedly mounted on one of the elements, the teeth on the rings being in angular alignment with each other.

63995. Heenan & Froude Limited. Improvements in or relating to hydraulic dynamometers. (May 9, 1957.) Provided with a back pressure valve and means responsive to the dynamometer speed for controlling the actuation of the valve.

63996. Clarke, Chapman & Co. Limited. Improvements in apparatus for producing finned tubes. [Divided out of No. 58696 and anti-dated to October 22, 1956.] Comprising means for rotating the tube, means for securing the leading end of a strip of metal for rotation with the tube, die means for guiding the strip at the helical pitch angle to bring one of its edges into contact with the exterior of the tube and welding means for welding the said edge of the strip to the tube.

63997. Cognate with Patent No. 62720.

63998. O. Ruthner. An arrangement for pickling wire or continuous strip material. Characterised in that a tower of substantially gas tight and acid resistant construction is incorporated in which the wire or the strip to be pickled is led upwards and downwards once or number of times.

MAY 8.

63999. Klockner-Humboldt-Deutz Aktiengesellschaft. Jaw crusher with toggle-lever drive. (April 16, 1958.) The pressure members of which consists of a centre piece and caps of wear-resistant material screwed to its end faces.

6400. Mid-Century Corporation. Process for the preparation of nitrogen-containing heteroaromatic carboxylic acid. An aliphatically substituted heteroaromatic compound is reacted with molecular oxygen in the presence of bromine and a heavy metal oxidation catalyst.

64001. Creed and Company Limited. Tape splicing mechanism. (July 19, 1957.) Void after publication. A tape utilization device with electromagnetically operated means to splice tapes to a secondary source from a primary one.

64002. Count Alain de Villegas de St Pierre Jette. Resistance panel or element and construction elements embodying the same. Resistance element comprising intersecting hollow parts spread over its entire surface.

64003. Aktiengesellschaft Fur Unternehmungen Der Eisen-Und Stahlindustrie. Rail cars, in particular ladle cars, mobile metal mixers or similar transfer cars for molten material. In which the underframe is connected together by several easily replaceable units arranged in juxtaposition in the direction of car.

MAY 9.

64004. Void.

64005. Rohm & Haas Company. Method and assembly for ion-exchange treatment of liquids. At least one filamentous structure inclined to horizontal, comprising filaments having ion-exchange groups at least on surface thereof, directing a liquid containing ions interacting with said groups to structure at a point above lowermost point thereof, whereby liquid flows by gravity along structure and ion-exchange occurs.

64006. American Cyanamid Company. Fungicidal composition. preparation and use thereof. Consists of an alkylguanidine salt in an inert carrier.

64007. Schenley Industries, Inc. Process for the production of bacterial enzymatic product. (August 9, 1957.) Producing a viable inoculum of micro-organism *Bacillus creus* and propagating the micro-organism to produce penicillinase.

64008. Societe Des Usines Chimiques Rhone-Poulenc. New imidazole derivatives and processes for their preparation. Reacting a 4(or 5)-nitroimidazole with a compound of the formula Z-A-OY.

64009. Socony Mobile Oil Company Inc. Improvements in or relating to motor gasoline. A motor gasoline containing one or more succinamic acids having an alkyl group containing 10 to 30 carbon atoms and having a tertiary carbon atoms directly attached to the nitrogen atom.

64010. Howa Kogyo Kabushiki Kaisha (known as Howa Machinery Ltd.). Apparatus for fixing top roller arm of spinning machine. A fixing lever is turnably supported so as to be turned around the arm rod, the shaft of the arm body being arranged at a position opposite to the fixing point relative to the arm rod.

64011. F. Schill and F. Konarek. A method and device for the manufacture of cellular-glass. Mould with foaming agent is heated to a sintering temperature of 500—750° C. and then to foaming temperature of 800—850° C. followed by quick cooling to a temperature of 400—500° C.

64012. Void.

64013. Void.

MAY 10.

64014. Void.

64015. Void.

64016. Stamicarbon N.V. A process for separating magnetisable particles from contaminating non-magnetisable particles. Separating the suspension into fine and coarse fractions, and separating magnetisable and non-magnetisable particles of both fractions independently but simultaneously in one magnetic separator by feeding the fractions separately to spaced position on the moving element of the separator.

64017. Leicester, Lovell & Company Limited. Improvements in or relating to curing agents for epoxide resins. (May 17, 1957.) Comprising an admixture of aniline-formaldehyde resin with a liquid polysulphide polymer.

64018. Imperial Chemical Industries Limited. Improvements in and relating to the treatment of polymers. (May 31, 1957.) Treating the polymer with

a halogen-containing compound of boron or aluminium in presence of hydrocarbon in liquid phase; then treating polymer with a lower alcohol and finally recovering solid polymer.

MAY 12.

64019. Pending.

64020. Imperial Chemical Industries Limited. Polymerisation of organic isocyanates. (June 12, 1957.) Contacting an organic isocyanate with at least one organic base containing a hydroxyl ion.

64021. Imperial Chemical Industries Limited. Photographic developers. (May 27, 1957.) Void after publication. Containing at least one amino or substituted amino group with an acid of the formula $X-Ar-SO_3H$ wherein Ar represents an aryl radical and X represents a carboxylic or sulphonic acid group.

64022. Polyplastic. Process for preparing polymers having improved properties. (February 3, 1958.) By submitting the polymer to the action of ozone whereby chemically bonded labile functions are formed on the polymer which are then decomposed in the presence of a filler material.

64023. Societe Des Usines Chimiques Rhone-Poulenc. Improvements in or relating to substituted benzoin. Reducing 5:5'-dinitro-2:2'-dichloro-benzil selectively for reducing the carbonyl group.

64024. Chemical Construction Corporation. Method and apparatus for carrying out exothermic vapor phase reactions. Wherein gaseous reactions mixture is passed through a stationary catalyst bed.

64025. Columbia-Southern Chemical Corporation. Process for making sodium carbonate and acetylene. Reacting calcium oxide with carbon to produce calcium carbide which is reacted with water to produce acetylene and calcium hydroxide and separating the products.

64026. Dorr-Oliver Incorporated. Rapid closure locking means for pressure vessels. Characterized in that at its periphery the closure plate has a rotatable locking ring with outwardly projecting spaced lugs.

64027. Essan Electrical (Proprietary) Limited. Improvements in or relating to electrical regulating systems, particularly suitable for regulating movements of the electrodes of arc furnaces and the like. (May 14, 1957.) Variations of two A.C. voltage and current supply actuate an electromagnetic device to adjust automatically the position of the parts such as electrodes of an arc furnace.

64028. Radio Corporation of America. Method of treating semiconductor bodies. Semi-conductor bodies are immersed in a powder of semi-conductor material with which there is alloyed a conductivity type-determining substance, and dispersed one from the other by said powder, and heated while said bodies are in the powder to cause said substance to diffuse for a limited depth into said bodies.

64029. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. Improvements in the manufacture of fibres from thermoplastic materials. Comprising a hollow body rotatable at a high speed the periphery of its has rows of apertures through which material is projected in the form of streamlets by centrifugal force.

64030. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Process for the preparation of alkyl(aryl) mercapto-methylenamides of O, O-dialkyl-thio (dithio)-phosphorylacetic acids with pesticidal activity. Reacting mercaptane with N-methylolamide of O, O-dialkylthio or dithio-phosphoryl acetic acid.

64031. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to objects such as crucibles, boats, jigs and the like of graphite for use with the manufacture of pure substances and objects. Crucible, boats, jigs and like

objects characterised in that at least their operative surface has a coating of a hard, pure glance-coal layer.

64032. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to a glass feeder intended for a continuous, upward supply of glass to a system for drawing glass tubes or rods. Heating device outside the sheath comprises a plurality of burners grouped about the axis of the stationary melting pot and the glass supplied to the glass melting pot without interruption.

64033. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to a method of reducing tungsten compounds by the addition of a so-called "dope". Reducing tungsten compounds with the addition of a "dope". i.e., a potassium silico—tungstenate of formula $K_4 Si W_{12} O_{40}$.

64034. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to a permanent memory storage comprising magnetically bistable cores arranged in rows of m-cores each. Comprising magnetically bistable cores arranged in rows of m-cores each to store a large number of code groups consisting of m bivalent code elements and to produce in parallel any of these code groups in the form of the presence or absence of pulses in m reading wires.

64035. L. Ehrenburg. Waterproofing agents for cement or concrete mixture and their method of production. Consists of a mixture of alkali aluminate, an alkali soap an alkali hydroxide and calcium chloride.

64036. J. P. Subramoniam. Improvements in or relating to water taps. Outer sleeve is attached to the valve body by means of studs, pins, screws or like means which are adapted to move in helical grooves provided on the outer surface of said valve body.

64037. Dr. R. S. Dubey and Walchandnagar Industries Limited. Improvements in or relating to the refining of sugarcane wax. Crude wax is refluxed with an anhydrous fraction of fusel oil substantially free from constituents boiling above $120^{\circ}C$.

64038. Ciba Limited. Pharmaceutical preparations containing new pyridazines. [Divided out of No. 60152 and ante-dated to April 9 1957.] The preparations comprise 30—80 per cent. of 1-aryl-2 alkyl-4-amino-3,6-dioxo-1,2,3,6-tetrahydropyridazine and a carrier.

64039. Cognate with Patent No. 64038.

64040. Metallurgical Resources, Inc. Process for separating arsenic and sulphur from complex ores. Separating arsenic from complex ore by treating that ore with an aerated solution of a basic alkali metal compound under heat and pressure.

64041. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. A process for improving the mechanical properties of polyvinyl chloride and products obtained by the process. Incorporating therein a polyamide or a polymethane resin.

64042. (Mrs.) Beryl Alice Enid De-Penning. Improvements relating to sliding clasp fasteners. Bending the filament or wire into wavy form in a common plane, folding the portions of the filament or wire at crests and troughs of waves towards each other about a centre line passing between crests and troughs to form a row of fastener elements connected together by loops extending away from elements.

64043. Ing. J. Bottger. A piston for internal combustion engines, particularly for compression-ignition engines having combustion chambers adapted for direct fuel injection. Interconnecting passage between combustion chamber in piston and space above it is bounded by two spirallines or semi-circles mutually symmetrically displaced by eccentricity $e/2$ in respect of combustion chamber axis.

64044. Stahlgruber, Otto Gruber & Co. Method of and means for repairing tubeless tyres. The repair body consisting of a shank with an umbrella like head at one end.

MAY 13.

64045. F. A. Hughes & Co. Limited. Means for protection of ship's hull against corrosion. (May 22, 1957.) Means for the distribution of water-insoluble liquid marine growth deterrent over the under-water surface of the hull.

64046. Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Vaporization apparatus for the continuous high temperature treatment of solid substances. Consisting of chamber or chambers comprising gas-light axial sheath containing heating device a series of plates or superposed tubes forming a honey comb the plates or tubes being on both sides of the sheath and leaving a gap between them and sheath and plates or tubes surrounded by previously ground solid matter to be treated.

64047. Pending.

64048. Glaxo Laboratories Limited. Improvements in or relating to antibiotics. (May 24, 1957.) Extracting solution of crude factors Z in organic solvent phase, with aqueous acidic phase partially immiscible therewith, whereby factor Z passes into said aqueous acidic phase.

64049. The British Oxygen Company Limited. Method and apparatus for deep-chilling perishable foodstuffs or other perishable materials. (June 7 1957.) Comprises moving a carton or container containing the foodstuffs towards a bath of liquefied refrigerant boiling at a temperature substantially below atmospheric temperature.

64050. Imperial Chemical Industries Limited. Process for the manufacture of new copper-containing monoazo dyestuffs. (July 5, 1957.) Reacting one molecular proportion of a cyanuric halide with one molecular proportion of a copper containing compound.

64051. Allen & Hanburys Limited. Improvements relating to surgical operation tables. (November 26, 1956.) [Divided out of No. 60184 and ante-dated to April 12, 1957.] Comprising a platform which has two sections and is hingedly mounted for rotation about an axis transverse to the platform on a yoke which is itself mounted on a hinge for rotation about an axis extending longitudinally of the platform.

64052. J. R. Geigy A.-G. New 7-triazinylamino-3-phenyl coumarins, a process for their production, their use for the optical brightening of natural or synthetic polymeric material and the material brightened with them. A, 2, 4, 6-trihalogen-1, 3, 5-triazine is reacted with a 7-amino-3-phenyl coumarin, the product is further reacted with an inorganic or organic nitrogen base and then treated to convert the third halogen atom to hydroxy group.

64053. Ellenberger & Poensgen G.m.b.H. Pushbutton-operated overload switch. Push-button actuated overload switch incorporating thermally operated trip-free release of connections.

64054. Void.

64055. The British Drug Houses Limited. Preparation of 17 β -hydroxy-17 α -alkynyl steroids. (May 21, 1957.) A 17-oxo-steroid compound is treated with alkynyl magnesium halide.

64056. The British Drug Houses Limited. Method for the preparation of 17 β -hydroxy-17 α -alkynyl steroids. (May 21, 1957.) 17-oxo-steroid compound is added to an excess of an alkynyl magnesium bromide or iodine in a solvent.

64057. The Wellcome Foundation Limited. Improvements in and relating to the manufacture of diquaternary compounds. (May 28, 1957.) [Addition to No. 57549.] Treating monoquaternary diamine with a lower alkyl quaternising agent.

64058. The Yale and Towne Manufacturing Company. Power operated lifting truck. A load carrier, a linkage system pivoted at one end thereof to said load carrier.

64059. The Yale and Towne Manufacturing Company. Light duty hydraulic truck. An elevating platform, lifting head with king post a support wheel for the lifting head mounted for sleeving rotation.

64060. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to semiconductive devices. (May 21, 1957.) Comprising a semi-conductive body having a zone of a given conductivity type diffused into the surface, this zone having a comparatively thick portion which is connected with at least one comparatively thin portion.

64061. A. Husain. Improved folding cot. A pin is passed through the hollow piece engaging upper end of the leg and a vertical guide slot is formed in the upper portion of the leg engaging the pin.

64062. British American Tobacco Company Limited. Improvements relating to the prevention of tarnish of bronze printing. (May 15, 1957.) Paper or paper board material is treated with a borate of sodium or potassium in an amount of 2 to 6 per cent. by weight of the said material.

64063. Ciba Limited. A new sulphonamide of the pyridazine series and process for its manufacture. Treating compound of type 3-(para-amino-benzene sulphonamido)-6-chloro-pyridazine with alkaline agent.

64064. Ciba Limited. Heat hardenable compositions comprising epoxide compounds and dicarboxylic anhydrides. Comprising a mixture of hexachloro-endomethylene-tetrahydro-phthalic anhydride and methyl-endomethylene-tetrahydro-phthalic anhydride.

64065. Fichtel & Sachs A. G. Gear hub for pedal cycles or the like. Comprises movable locking pawl carrier on a projection of a hollow wheel and a pawl.

64066. International Combustion (Holdings) Limited. Improvements in or relating to oil burning furnaces. (May 21, 1957.) Comprising a plurality of oil burners which are arranged in at least two banks each consisting of at least two burners, means also provided for controlling fuel supply.

64067. International Combustion (Holdings) Limited. Improvements in or relating to oil burning installations. (May 21, 1957.) Having at least one oil burner or group of oil burners fed from an oil fuel heating and circulating system via a supply conduit joined by an oil flow control valve and a non-return valve to the system.

64068. Etablissement Pour Matériaux De Construction and F. L. Smidth & Co. A/S. Apparatus for manufacturing a fibrocement web suitable for manufacturing slabs and pipes. Characterised by that the watery mixture contained in the supply vat is stirred by a plurality of stirrers arranged in series in the direction of travel of the layer.

MAY 14.

64069. Compagnie Generale De Telegraphia Sans Fil. Improvements impulse—Modulated radar type devices. (May 21, 1957.) Void after publication. Comprising means for radiating two signals having a fixed difference, two reception channels comprising means for separating the echo signals respectively corresponding to said signals and changing echo signals into respective intermediate frequency signals which have a common frequency for fixed echo.

64070. Merck & Co., Inc. Process for the production of 16 α -Methyl-Pregnane-3 α -OL-11, 20-dione. By reacting 16-pregnane-3 α -OL-11, 20-dione-3 acylated with a methyl Grignard reagent.

64071. Stamicarbon N. V. Process of preparing urea. The melt from the autoclave is introduced into the top of the two rectifying columns and expanded to a pressure of 12-30 atm., the liquid in the bottom being heated to a temperature 110°—150° C. and continuously discharged in a second rectifying column, the liquid in the bottom of second rectifying column is heated to 75—105° C. and continuously discharged as a crystal-free carbamate solution.

64072. Pending.

64073. D. Napier & Son Limited. Assemblies including helical splines and coil springs. (May 20, 1957.) Radius of the helical spline coupling relatively movable parts, mean radius of coil spring being such that $R \cong r \sqrt{1 + \sigma}$ where R is mean radius of helical spline coupling, r is mean radius of spring coils and σ is Poisson's ratio for spring.

64074. The General Electric Company Limited. Improvements in or relating to low pressure mercury vapour fluorescent, electric discharge lamps. (May 21, 1957.) The area of cross-section of the envelope at one end at least is reduced by the inward deformation of the envelope wall over a region between the electrode at that end and the adjacent end of the envelope.

64075. Void.

64076. International Computers and Tabulators Limited formerly known as The British Tabulating Machine Company Limited. Apparatus for storing and reading out data. Comprising a main magnetic storage film, an associated magnetic storage film and means for scanning the main magnetic storage film with the field associated with at least one wall which separates substantially oppositely oriented magnetic domains in the associated storage film.

64077. Void.

64078. P. C. Madar. Improvements in or relating to hurdles. Having a portable underframe, a portable upper frame slidably supported on the underframe, two folding legs provided on the underframe and (4) an adjustable counter-weight on each of the folding legs.

64079. P. de Ruggieri. Method for the preparation of 17- α homologues of the 19-nor-testosterone and new relative intermediate compounds. Converting ester-4-en-317-dione with acetone-cyanohydrin into corresponding 17-cyanohydrin derivative, converting said cyanohydrin derivative into 3-ethoxy-3, 5-diene, converting the diene into 17-alkyl-19-nor-testosterone and acidifying the resulting mixture.

64080. E. I. du Pont de Nemours and Company. Staple fiber yarn. The staple fiber yarn comprises a blend of natural and synthetic fibers in which the synthetic fiber is a high strength linear condensation polymer having a load-bearing capacity equal to greater than that of the natural fiber at the break elongation of the natural fiber.

64081. Universal Conveyor Company Limited. Endless belt conveyor. (May, 16, 1957.) Characterised by the fact that the belt carries on its inside face guide elements which co-operate with fixed guideway means on the supporting structure to portion the belt and guide the upper run thereof in its arcuate path.

64082. Ciba Limited. Process for the manufacture of new hydroxamic acid esters. An aliphatic hydroxamic acid is reacted with a reactive ester of an alkanol.

MAY 15.

64083. Preparation Industrielle des Combustibles. Improvements in or relating to dense liquid separating tanks for segregation of solid substances of different specific gravities. Paddle wheel arranged obliquely on the side of the tank to effect raising of heavy materials, the medium constituted by solid particles in suspension being supplied through one or more pipes orientated with respect to the liquid level.

64084. Preparation Industrielle des Combustibles. Improvements in or relating to dense liquid separation apparatus for densimetric separation of solids of different specific gravities. Rotatable paddle wheel arranged obliquely on one side of the bath paddles being joined by a cylindrical web at their edges and an annular web at right angles to the axis of rotation.

64085. Pending.

64086. Hobourn-Eaton Manufacturing Company Limited. Reversible rotary pumps giving unidirectional fluid flow. (July 16, 1957.) Comprising a casing

having a rotor chamber provided with diametrically opposite intake and discharge ports, a rotor carrying outwardly sliding vanes or equivalent pumping elements, and a ring within and smaller than chamber.

64087. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of novel amino acid hydrazides. Reacting an α -acylamino acid with an aralkyl substituted hydrazine in the presence of a carbodiimide.

64088. Centre National de La Recherche Scientifique. Ferrites and methods of manufacture thereof. Preparing mixture of ferric oxide, oxide of manganese and zinc oxide in which molecular content of Fe_2O_3 is between 54 and 62 mol per cent. compressing it and heating it to a temperature between 1150°C . and 1280°C . in an atmosphere of nitrogen containing between 2 and 20 per cent. by volume of oxygen followed by slow cooling in pure nitrogen.

64089. Ciba Limited. Process for the manufacture of new cyclic decapeptides. Treating with basic agent an acid salt of L-leucyl-L-leucyl-L-leucyl-D-phenyl-alanyl-L-proline carboxylic acid ester.

64090. Void.

64091. Diamond Alkali Company. 3-halo-2, 3-dihydrothiophene-1, 1-dioxides, and composition containing the same. By mono-dehydrohalogenating 3, 4-dehalotetrahydrothiophene-1, 1-dioxide or cis or trans isomers thereof.

64092. Sandoz Ltd. Improvements in or relating to the production of pyrazolone derivatives. (February 28, 1958.) [Addition to No. 60876.] N-methyl-pepidyl-4-hydrazine is reacted with a compound of the formula $\text{R}'\text{-CO-CR}_2\text{H-COOR}_3$ (R is prop-2- YnYl or benzyl; R' is phenyl; R₃ is hydrogen, methyl or ethyl).

64093. Sandoz Ltd. The preparation of new basic phenothiazine derivatives. (March 7, 1958.) Reacting a phenothiazine derivative substituted in the 3-position by a monovalent sulphur-containing group with 1-halogeno-3-propylamine.

64094. Void.

MAY 16.

64095. Q. J. Philips. Method of forming a keying or backing made from coir mesh matting for the fabrication of structures of plastic compositions, plasters mortars and the like. Forming a keying or backing as a suitable support for the fabrication of structures of plastic compositions made from coir mesh matting by wetting it with water and stretching tightly in both directions between erected posts.

64096. Pending.

64097. Pending.

64098. The Goodyear Tire & Rubber Company. Polymeric compounds, solutions thereof and process of preparing them. Prepared by reacting linear polyesters prepared from aliphatic polyhydric alcohol or mixture thereof and aliphatic polycarboxylic or mixtures thereof and containing terminal hydroxyl groups.

64099. The Goodyear Tire & Rubber Company. Improvements in vehicle for transporting and storing liquids. Elongated axle having radially extending flanges at ends, flexible, inflatable body having side walls secured to said flanges to form fluid tight chamber and valve means for fluid admission.

64100. Imperial Chemical Industries (India) Private Limited. Method of making a pipe joint between a pipe of polythene or other polyolefine or like thermo-plastic material and another pipe or pipe fitting. Wherein pipe with out-turned annular flange end of one pipe is made to abut against annular seating on other pipe and clamping two together with complementary union elements on both pipes.

64101. National Research Development Corporation. Improvements in and relating to the preparation and use of catalysts. (May 17, 1957.) In which

the catalyst has a particle size below 200 μ and is subjected to ionising radiation.

64102. H. R. McLaughlin. Improvements in or relating to cylinder flat bed portable printing machines. (May 17, 1957.) Comprising a stationary horizontal type-carrying flat bed and a horizontal paper supporting cylinder thereabove.

64103. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of substituted amino acid hydrazides. Condensing an α -acylamino acid with an aralkyl substituted hydrazine.

64104. The British Petroleum Company Limited. Improvements relating to air filter oils. (May 17, 1957.) Consisting essentially of a blend of a mineral of synthetic lubricating oil and a microcrystalline petroleum wax.

64105. The British Petroleum Company Limited. Improvements relating to air filter oils. (May 17, 1957.) Consisting essentially of a blend of a mineral or synthetic lubricating oil and a fischer tropsch wax.

MAY 17.

64106. Void.

64107. B. Zavalloni and F. Valducci. Improvements in or relating to apparatus for use in the spraying of liquids. (May 28, 1957.) Wherein the turbine wheel is arranged to displace the barrel step-by-step above its centre of rotation by imparting a rocking movement to the upper end of a lever arm.

64108. J. R. Geigy A. G. Process for the production of water soluble basic resins containing nitrogen. Heating at over 120° to about 280° C. 2-aminoimidazoline compounds alone or together with high boiling organic solubility promoters.

64109. Imperial Chemical Industries Limited. Improvements in or relating to the manufacture of cellular polymeric materials. (May 31, 1957.) The reaction being performed in the presence of a foam stabilising agent.

MAY 19.

64110. Keshav Chandra. Improved device for automatically flushing a lavatory pan. Cistern having a sump in the centre of which stands a hollow cylinder with its upper end closed and the lower having a number of holes to allow free flow of water.

64111. Void.

64112. N. V. De Bataafsche Petroleum Maatschappij. Alkylation process. Exposing a reaction mixture containing at least one mole of saturated hydrocarbon per mole of olefinic hydrocarbon and 0.1 to 5 mole per cent. of one to more hydrosulphuryl compound and/or one or more organic disulphides.

64113. Chas. Pfizer & Co., Inc. Antibiotic compositions and preparation thereof. Comprising aqueous solution containing 25 to 80 per cent. by weight of amide of acetic acid, from 10—100 mg/ml. of oxytetra-cycline from 0.67 to 1.0 molar equivalents of physiologically acceptable magnesium salt and ammonia.

64114. J. R. Geigy A.-G. Process for the production of 3,5-diaminopyrazine-2,6-dicarboxylic acid derivatives and their use as optical brightening agents. 1,3-dialkyl-4-amino-uracil is condensed with a 1,3-dialkyl-amino-5-nitroso uracil in an acidic medium, the product is saponified with a strong base and if necessary further, amidated.

64115. National Lead Company. Polymerization of olefins. Heating a mixture of metallic aluminium, titanium tetrachloride and an organic solvent to 30—220° C. together with a grignard reagent and an inert organic solvent.

64116. The British Oxygen Company Limited. Method and means for compounding gaseous mixtures. (May 21, 1957.) Directing the gases through separate metering orifices to an outlet and maintaining pressures of gases

upstream of metering orifices substantially equal at a level that is varied to regulate the rate of flow of gases from orifices in a manner tending to stabilise outlet pressure at a selected value.

64117. The Superheater Company Limited. Improvements in or relating to steam superheaters for locomotives. (May 24, 1957.) Alternate pockets or finger chambers have their respective end welded on the one hand to the wall of saturated steam channel and on other hand to opposite wall of superheated steam channel.

64118. Imperial Chemical Industries Limited. New copper-containing monoazo dyestuffs. (July 5, 1957.) Reacting one molecular proportion of a cyanuric chloride with one molecular proportion of copper complex of a diazotised 2-alkylamino-5-naphthol-7-sulphonic acid.

64119. Pending.

64120. Pending.

64121. The British Thomson-Houston Company Limited. Improvements in and relating to electric control system for conveyance drive. (May 30, 1957.) Electric circuit for disabling the power input is controlled by two switches completing the circuit individually, one depending upon the speed of the input of transmission gear and the other depending upon the speed at the output of the transmission gear.

64122. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Method of preparing shaped articles from high molecular weight highly crystalline polypropylene. Wherein polypropylene in the form of powder is introduced into a mould subjected to a pressure of 200 kg/cm.² at a temperature of 150° to 200° C.

64123. Aktiebolaget Tudor. Lead accumulator electrode. (January 24, 1958.) Accumulator electrode grid consisting of a lead alloy containing cobalt and/or silicon.

64124. Imperial Chemical Industries of Australia and New Zealand Limited. An improved method of and apparatus for packaging free running solid aggregates in thermoplastic sheet material. (May 20, 1957.) Comprising steps of heating the sheet material to the consistency of a viscous liquid, maintaining it horizontal while pouring flowable material on to it and controlling the elongation of the sheet under the weight of the flowable material.

64125. H. F. Gatward. Improvements in carrier bags. Provided along its upper edge, with two cardboard or other stiffening flaps which are capable of inward hinging movement.

64126. D. M. Edwardes. Improvements relating to joints between tubular members. In which the socket houses a resilient o-ring, the end of the spigot is tapered to enter and expand the o-ring radially to form a fluid-tight joint.

64127. British Telecommunications Research Limited. Improvements in and relating to teleprinter testing apparatus. (May 22, 1957.) Distortion measuring apparatus comprising a circuit for deriving double current signals from single current signals connected to means for deriving a pulse from each transition from mark to space and space to mark in the derived double current signals, and an indicator connected to the last said means for displaying the derived pulses on a time base.

MAY 20.

64128. M. P. Polson. Cans or canisters of sheet metal. Comprising a sheet body whose vertical edges connected together by a removable locking pin passing through clamps on the edges, a ridge on the lower end of the body supporting the bottom plate and a cover for the top.

64129. D. B. K. Manseil. Link connection for machinery belting. A link or like member having longitudinal members and transverse members mounted rotatably, shackle pass between longitudinal members round bearing members to belt end.

64130. Rohm & Haas Company. Process and apparatus for recovering sugar from sugar-bearing fluid. Comprises passing through an ion-exchange resin bed in repeated cycles (1) the sugar solution, (2) water to remove the sugar from the bed, (3) regenerant for the exhausted exchanges and (4) water to wash the bed free of the regenerant and salts liberated thereby. There being used only that amount of the regenerant which is sufficient to convert a band of resin in the influent half of the bed from the salt form to the acid form in the case of cation-exchange resin.

64131. The General Electric Company Limited. Improvements in or relating to doors. (May 27, 1957.) Comprising a frame, having a lip or step extending inwardly from the inner edge, and rearwardly directed flange part projecting from the inner edge of the lip or step, and a panel fitting in the frame on the lip or step.

64132. Void.

64133. Pending.

64134. E. Seidler, nee Meyer. Filters using paper and felt. Characterised in that the housing cover serving as the support for the paper filter is provided at the same time as a support for a felt filter.

64135. Oldham & Son Limited. Improvements in or relating to electric supply units. (May 21, 1957.) In which movable contacts housed in an adaptor or are arranged respectively for movement into and out of engagement with a first and second fixed contact also housed in the adaptor, by insertion into the adaptor of an electrically conductive key connected to the input terminals of the consuming device, rotary movement of the key effecting battery connection through a current limiting resistance provided for protection purpose.

64136. Gutehoffnungshutte Sterkrade Aktiengesellschaft. Improvements relating to blast furnaces. Shaft casing of the blast furnace has a supporting ring of hollow box-section, a supporting ring radially spaced from the shaft casing, a bracket secured to the inside of the supporting ring.

64137. The Metal Box Company Limited. Improvements in or relating to closing of containers by caps. (June 6, 1957.) The neck of the container is provided with multi-start screw-threads which extends towards the mouth, and a cap the skirt of which surround the neck.

MAY 21.

64138. Void.

64139. N. V. De Bataafsche Petroleum Maatschappij. Process for upgrading of straight run gasolines. Improving straight run gasoline by catalytic reforming and catalytic isomerization.

64140. Pending.

64141. Societe Technique Pour L'Utilisation De La Precontrainte (S.T.U.P.) (Procedes Freyssinet). Improvements in supporting devices, especially for bridges. Constituted by a sheet of flexible elastic and incompressible material which is enclosed and struck between two steel sheets.

64142. Joseph Lucas (Industries) Limited. Rotary fuel supplying pumps. (June 3, 1957.) Comprising a construction wherein helical or like ducts are provided on the peripheral surface of the armature and a return duct.

64143. Dr. Ing. F. H. Stradtman. Process for the production of tubes and other hollow bodies of substantially cylindrical cross-section. Hollow body and first produced with generally flat cross-sectional form by watching together metal strips and is then formed to substantially cylindrical cross-section.

64144. F. L. Smidth & Co. A/S. Improvements relating to methods of and apparatus for calcining, burning or sintering cement raw material, lime ore and the like. (May 27, 1957.) Calcining ores which move as a layer on or over a gas permeable support while gases pass through the materials.

MAY 22.

64145. The Singer Manufacturing Company. Attachment for sewing-machine. Means for securing attachment to the presser bar so that feed of work feeding device occurs in a direction transversely of a plane containing the axes of needle bar and presser bar.

64146. Caterpillar Tractor Co. Improved piston for an internal combustion engine. Having a crown, a pair of spaced piston pin bosses depending therefrom and a skirt portion cast integrally with the crown and the bosses.

64147. Union Carbide Corporation. Polymeric fiber material. Comprises polymerizing monomeric 4-methyl-1-pentene in the presence of a catalyst consisting of a mixture of titanium trichlorid.

64148. G. W. Rappleyea. Synthetic bitumen compositions. Admixing a dry solid carbohydrate and a catalytic agent with an asphaltic fuel oil and heating the mixture to polymerised state.

64149. B. B. Blackford and W. J. Gross. Adhesive material. (May 24, 1957.) Wherein each end of the adhesive material is in a curved form such that it is free from any straight line of adhesion parallel to the line of separation between the adhesive and the facing.

64150. Zavody 9. Kvetna Narodni Podnik. Lubrication of a bearing of rear wheel pivot fork for single-track and similar vehicles. A lubricant bowl is disposed above the lubricant level in the transission case and interconnected through a passage or tube to the bearing of the pivot fork.

64151. National Malleable and Steel Castings Company. Improvements in or relating to a car coupler. Railway car coupler which comprises a knuckle rotatably connected to coupler head by a vertical pin and provided with abutment means on the head and on the knuckle near the pin.

64152. General Electric Company. Stator vane assembly. Includes an annular casing made up of at least two casing segments, and an annular stator vane ring mounted in said casing.

64153. Void.

MAY 23.

64154. T. Varghese. Propellers for boats. Comprising a cylinder and a close fitting socket each having four openings behaving as valves and the propellor working inside the socket rotating in one direction, the bottom of the cylinder being closed, and means for turning the socket within the cylinder.

64155. The WM. S. Merrell Company. Production of substituted triphenyl-ethanols. (July 17, 1957.) Reacting a dialkylamino-benzophenone with a benzyl-magnesium halide.

64156. Universal Oil Products Company. Corrosion and icing inhibitors and application thereof. Comprising a salt selected from the group consisting of the alkyl acid orthophosphate and alkyl acid pyrophosphate salts of N-alkyl-diaminolkane.

64157. Riple Sole Corporation. Resilient shoe soles. (January 30, 1958.) Having a series of rib-like members spaced longitudinally along the sole, each rib-like member being curved transversely of the sole.

64158. Imperial Chemical Industries Limited. Process for the manufacture of new monoazo dyestuffs. (June 5, 1957.) [Addition to No. 55846.] Interacting cyanuric halide and an amino azo compound.

64159. Imperial Chemical Industries Limited. New monoazo dyestuffs. (June 5, 1957.) [Addition to No. 55846.] Interacting cyanuric acid and amino azo compound.

64160. Imperial Chemical Industries Limited. New copper-containing mono-azo dyestuffs. (July 5, 1957.) Copper-containing monoazo dyestuffs which contain at least 3 sulphonic acid groups.

64161. Farbenfabriken Bayer Aktiengesellschaft. Process for the production of dithia-tetrahydro-isoindolenines. (March 18, 1958.) Reacting 1:2-dicyano-3:6-dithia cyclohexene-(1) with ammonia.

64162. Farbenfabriken Bayer Aktiengesellschaft. Process for the production of 1, 2-dicyano-3, 6-dithia-cyclo-hexenes-(1). (March 18, 1958.) Reacting salts of 1, 2-dicyano-1, 2-dimercaptoethylene with organic compounds containing 2 exchangeable groups in α -position.

64163. Huttenwerk Oberhausen Aktiengesellschaft. Method of producing steel low in nitrogen. Producing steel low in nitrogen in a drum containing pig iron by introducing a blast enriched with oxygen through nozzles immersed below the surface of the bath.

64164. The British Petroleum Company Limited. Improvements relating to synthetic lubricants. (May 24, 1957.) Comprising a blend of a liquid aliphatic diester of a saturated aliphatic dicarboxylic acid and a polyester soluble in the diester.

64165. The British Petroleum Company Limited. Improvements relating to synthetic lubricants. (May 24, 1957.) Comprising a blend of a liquid aliphatic diester of a saturated aliphatic dicarboxylic acid and a polyester soluble in the diester.

64166. The British Petroleum Company Limited. Improvements relating to synthetic lubricants. (May 24, 1957.) Comprising a blend of a liquid aliphatic diester of a saturated aliphatic dicarboxylic acid or a mixture of such diesters, and a polyester soluble in the diester.

64167. The British Petroleum Company Limited. Improvements relating to synthetic lubricants. (May 24, 1957.) Comprising a blend of one or more liquid aliphatic diester of a saturated aliphatic dicarboxylic acid and a polyester soluble in the diester.

64168. Council of Scientific and Industrial Research. Improvements in or relating to centrifugal pumps. Characterised in that (i) the impeller is fitted in a forced vortex casing and (ii) the vane outlet angle is less than the vane inlet angle.

MAY 24.

64169. Kugelfischer Georg Schafer & Company. Device for assembling or disassembling respectively press-fitted parts of a machine. Parts are press-fitted or interference fits, *e.g.*, inner races of antifriction bearings on a shaft by thermal expansion of those parts to be assembled or disassembled.

64170. Void.

64171. Dunlop Rubber Company Limited. Vulcanised natural or synthetic rubber articles containing antiozonants and compositions for incorporation therein. (May 28, 1957.) Incorporating therein antiozonant and liquid carrier therefor.

64172. Dunlop Rubber Company Limited. Vulcanised natural or synthetic rubber articles containing thiourea antiozonants. (May 28, 1957.) Vulcanised rubber articles containing as an antiozonant a thiourea having one or more hydrocarbon substituents in the molecule.

64173. Hoover Limited. Improvements relating to suction cleaner belt lifting and converter assemblies. A belt and converter assembly including a tubular belt guide arranged to be mounted in with the fan inlet and rotatable about its axis, and arranged to engage the belt.

64174. A. R. Baro. A new process for purifying sugar cane juice separating partially the impurities without heat treatment. Consists in passing the raw and cold sugar cane juice, through a sift or screen to separate the suspended solids.

MAY 26.

64175. Void.

64176. Void.

64177. A. P. Jain. Improvements in or relating to snap fasteners. Consisting of a male part with projecting knob having one or more slit(s) cut, and a female part having a hole which in size is smaller than the knob, so that when knob is thrust against the hole the knob squeezes and gets in.

64178. Automatic Telephone & Electric Company Limited. Improvements in encapsulated electrical components. (June 14, 1957.) Open-fronted container is provided with a centrally disposed tube having toroidal coil mounted, former is filled up to open face with insulating compound and a winding passing through tube.

64179. Automatic Telephone & Electric Company Limited. Improvements in selectors for use in automatic telephone systems. (June 18, 1957.) Sense of the rectifier is such as to permit the operation of switching relay when an idle outlet denoted by first potential is encountered but to prevent operation of said relay when an outlet is encountered which is utilised on another call marked by earth.

64180. Rohm & Haas Company. Coating compositions method of use and articles coated therewith. Comprising a (1) Copolymer of an ester of acrylic acid or methacrylic acid with an alcohol having 1 to 4 carbon atoms and $\frac{1}{4}$ to $\frac{1}{2}$ mole per cent. of at least one comonomer containing a polar group (2) $\frac{1}{2}$ per cent. to 2 per cent. by weight, based on the weight of the Copolymer of an ethoxline resin.

64181. Merck & Co., Inc. Process for preparing benzothiadiazine-1, 1-dioxide compounds. (June 21, 1957). Comprising reacting a mixture of disulfamylaniline and an amide selected from the group consisting of formamide, dimethyl formamide acetamide and dimethylacetamide.

64182. Societe Des Usines Chimiques Rhone-Poulenc. New antibiotic and process for its preparation. Fermenting aerobically culture of strain streptomysesperuviensis in aqueous nutrient medium with sources of carbon, nitrogen and mineral salts.

64183. Imperial Chemical Industries Limited. Process for the manufacture of new monoazo dyestuffs. (June 5, 1957). Comprises diazotising a triazine and coupling the resulting diazonium compound with a naphthol sulphonic acid coupling in ortho position to the hydroxyl group.

64184. Deutsche Gold Und Silber Scheideanstalt vormals Roessler. A process for the production of grinded wood pulp and newsprint produced therefrom. (March 24, 1958). Process comprises treating wood, before or during grinding, with an alkaline aqueous solution of a peroxidic compound capable of giving off oxygen.

64185. Ciba Limited. New 1:4-dihydroxy-5-acylaminoanthraquinones and process for their manufacture. Wherein 1:4-dihydroxy-5-amino-anthraquinone is acylated with a reactive derivative of a monocarboxylic acid.

64186. Kalle & Co. Aktiengesellschaft. Process for finishing textiles. The ends of the textile pieces are overlapped after having brought a thermoplast between these ends the ends being joined by a short time heating at a temperature in the range from 100°C to 300°C and under pressure.

64187. N. V. Koninklijke Pharmaceutische Fabrieken V/H Brocades-Scheeman & Pharmacia. A method of producing therapeutically active tropylethers. Reacting compound of type 2-methyl benzhydryl-chloride with compound of the type tropinol and treating the reaction product with halogen halide.

64188. Miles Laboratories, Inc. Symmetrical bis-amines. A primary bis-amine is reacted with an aldehyde or carboxylic acid, and the reaction product is reduced.

64189. Cognate with Patent No. 62720.

64190. The Bharat Motor Company. Improvements in or relating to ball bearings. In which the ball tracks are provided partly by a threaded shaft and partly by the inner wall of an annular bearing which encircles the shaft.

64191. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Tank containing a bath to heat a plastic tube passing continuously through that bath. A guide bearing in the tank is so disposed that it may slide with respect to the space below or above the surface of the bath liquid.

MAY 27.

64192. Coal Industry (Patents) Limited. Improvements in and relating to conveyors. (June 7, 1957.) Device for guiding the conveyor belt comprises a belt drum and a pair of pulleys for the ropes and a pair of sheaves for ropes.

64193. Coal Industry (Patents) Limited. Improvements in and relating to conveyors. (June 7, 1957.) Provided with a device for changing the distance between the rope centres and/or for ensuring that the ropes are positively guided at a change of inclination.

64194. Coal Industry (Patents) Limited. Improvements in and relating to conveyors. (June 7, 1957.) Characterised in that on the return flight the ropes are allowed to rest in jaws which are attached to belt.

64195. Coal Industry (Patents) Limited. Improvements in and relating to conveyors. (June 19, 1957.) Having multiple jaws attached to the belt, comprising sheaves and deflector pulleys.

64196. Merck & Co., Inc. Process for preparing disulfamylaniline compounds. (June 21, 1957.) Reacting chlorosulfonic acid with an aniline compound to form the disulfonyl chloride derivative and amination to convert the same compound to the corresponding disulfamyl derivative.

64197. Bata Shoe Company Private Limited. Machine for moulding plastic articles. Comprising a carriage, a platform rotatably mounted on the carriage and carrying a number of mould holders, mechanism for rotating the platform step by step to bring the mould holders one by one into register with said apparatus and means for locking the platform.

64198. Chas. Pfizer & Co., Inc. Process for the preparation of 5-substituted -2, A-disulfamyl (α -halo) acylanilides and therapeutic agents prepared therefrom. By heating 5-substituted-2, 4-desulfamyl aniline with an α -halo-acylating agent.

64199. Union Carbide Corporation. Wire feeder. Comprising a motor gear reduction unit having a transverse feed roll shaft, means for adjusting the unit about the motor axis to a selected angle in a plane radial to the motor axis.

64200. Union Carbide Corporation. Welding composition for hard facing. Welding composition comprising 8 per cent. to 12 per cent. ferrochromium, from 2 per cent. to 4 per cent. ferromanganese, from 0 per cent. to 8 per cent. fluorspar, the remainder being slag forming constituents.

64201. Union Carbide Corporation. Constricted arc metal removal. Applying a constricted electric arc formed in a jet of gas such as nitrogen, hydrogen or mixture thereof, to the metal surface to be removed.

64202. The Yale and Towne Manufacturing Company. A lift truck. Having a pair of laterally spaced uprights of channel shape in cross-section, a secondary upright also of channel shaped cross-section, a load carriage mounted between the pair of secondary uprights, sufficient clearance being provided between the primary uprights and the secondary uprights to permit the latter

to rotate relative to the former about a laterally directed axis under the influence of an applied turning moment.

64203. The Yale and Towne Manufacturing Company. Industrial lift trucks. Comprising a pair of relatively stationary primary uprights and a pair of secondary uprights arranged aligned juxtaposed relation to the primary uprights and having a pair of longitudinally extending flanges and a roller mounted adjacent one of its ends for contact with one of the flanges on a juxtaposed uprights.

64204. Void.

64205. F. Rey. Improvements to tipping hoppers and particularly to those used for collecting household refuse. Comprising a rear loading device carried by two flanking girders designed to pivot about transverse axles on the sides of the hopper casing.

64206. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to devices for separating an elongated light-weight article from a number of such articles, and for conveying it. Comprising member which has potential difference with respect to articles and intermittently acts on articles in container so as successively to left articles one by one, and means for conveying lifted articles to their destination.

64207. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to burner devices for liquid fuel. Container for fuel connected to at least two vaporisers which are each connected by a valve, nozzle and mixing tube to a burner auxiliary burner associated with these vaporisers and having a vaporiser, connected to container via a separate line.

64208. Union Carbide Corporation. A process for preparing graft copolymers of polyethylens and a polymerizable organic monomer. Comprises reacting an activated polyethylene obtained by subjecting polyethylene to ionizing radiation with a polymerizable organic monomer.

64209. Union Carbide Corporation. Catalytic olefin polymerization. Bringing olefine in contact with a catalyst composition comprising a halogen-free organo compound of aluminium and a vanadic ester catalyst being dispersed in inert hydrogen liquid.

64210. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Process and apparatus for the manufacture of omnidirectionally oriented and strengthened films of artificial thermoplastic materials. [Addition to No. 60924.] Heating a thermoplastic tubular section to a temperature between its softening point and 60°C below said point and then again heating it in the range of $1-10^{\circ}\text{C}$ above the first temperature.

64211. Nederlandse Organisatie Voor Toegepast-Natuurwetenschap Schappelijk Onderzoek Ten Behoeve Van Nijverheid, Handel En Verkeer. Selective membrane. Using as the organic hydrophobic polymeric material a product obtained by swelling a polyalkaylenic base material in monomeric aromatic vinylic compound and subjecting the swollen product to polymerisation by a heat treatment.

64212. Socony Mobil Oil Company, Inc., Additives for imparting antirust properties to oils, particularly distillate fuel oils and mineral oils. A distillate fuel oil containing as an additive a compound consisting of an amic acid.

MAY 28.

64213. Gesellschaft Fur Linde's Eismaschinen Aktiengesellschaft. Process and apparatus for separating solid carbon dioxide from air during its decomposition. By pressure and cooling, where the carbon dioxide is separated partly in the gaseous exhaust of a work-producing expansion machine.

64214. International Computers and Tabulators Limited, formerly known as The British Tabulating Machine Company Limited. Improvements in or

relating to pulse generating and pulse limiting circuits. (July 19, 1957.) Using limiter magnetic core.

64215. Aktiebolaget Bahco. Improvements in gas-burning cooking appliances. Having two burners to which the gas is conducted from the source of gas and arrangement to control the size of the flame of the burners.

64216. The Mining Engineering Company Limited. Improvements relating to roof supports for mine workings. Comprises at least with one reinforced rubber tyre filled with fluid under pressure and mounted with its axis vertical.

64217. The British Thomson-Houston Company Limited. Improvements relating to limit switches for use in winders, lifts, haulage systems or the like (May 31, 1957.) Comprising a radio-active radiator and detector fixed relative to one another so that the detector is continuously excited by the radiator.

64218. J. C. Bajaj. An improved case or box for accommodating writing materials. Consisting a rectangular container with upstanding walls on three sides and open on fourth side, a cover hinged on the side opposite to open side the inner side of container divided into three compartments.

64219. J. C. Bajaj. Combined screw driver and aerated water bottle capsule opener. A metallic circular disc from which projects a handle, the disc having projecting legs in the shape of tip of screw driver and the handle having a recess between a pair of forks, operating as capsule opener.

64220. Taskers of Andover (1932) Limited. Improvements in and relating to retractable undercarriages for trailer vehicles. (May 29, 1957.) Comprising turntable pivotally mounted main legs depending from the turntable and carrying ground engaging wheels or rollers.

64221. Toyo Rayon Kabushiki Kaisha. Process for producing textile of synthetic fibers. Yarns of synthetic fibers are given a strong twist and heat set and one or more yarns of synthetic thermo-plastic material are given twist of different condition and heat, the resultant yarn is twisted reversed direction.

64222. Tanabe Seiyaku Co. Ltd. Process for the preparation of β -hydroxy- α -amino acids. Comprises condensing a metal complex salt of glycine with an aliphatic or aromatic aldehyde in the presence of a basic catalyst to produce a metal complex salt of a β -hydroxy- α -amino acid, removing metal by treatment with hydrogen sulphide or an ion exchange resin, and recovering β -hydroxy- α -amino acid.

64223. Novo Terapeutisk Laboratorium A/S. Process for treatment of insulin crystals and for production of insulin preparations therefrom. Insulin crystals produced from bovine pancreas glands are heated to a temperature above room temperature for such a period of time that after suspending in an aqueous injectable medium and subsequent subcutaneous injection the crystals will show insuline action.

64224. Ciba Limited. Process for the manufacture of di-imidazole derivatives. [Addition to No. 55255.] α : β -dibenzimidazolyl-(2)-mono-hydroxyethane is treated with an aliphatic carboxylic acid to split off water therefrom.

64225. Council of Scientific and Industrial Research. Low melting chemically resistant glass compositions. [Addition to No. 56705.] Containing 5—12 per cent R_2O (Fe_2O_3 and Al_2O_3) 8—17 per cent RO , 5—15 per cent Na_2O , 0.12—5 per cent K_2O , 0—3 per cent B_2O_3 , 0.08 per cent F , 0.05 As_2O_3 , 0.05, Sb_2O_3 , 0—5 per cent TiO_2 , 0.2 per cent P_2O_5 , 0—5 per cent Zirconium oxide, SiO_2 balance to make upto 100. Where RO is CaO , MgO , ZnO , MnO , BaO , PbO .

MAY 29.

64226. Council of Scientific and Industrial Research. Preparation of predigested protein rich pasty products for fortifying and seasoning food preparations. Subjecting proteinaceous material to microbial digestion.

64227. L. LOISEAU. Improvements in self-propelled or towed machines for picking tea leaves. Comprises at least one relatively light plate driven

from a self-propelled or towed vehicle; the front end of the plate has cutting device and a container for collecting the cut.

64228. Societie Genevoise D'Instruments De Physique. Device for recording and automatically repeating stopping positions of a mobile member of a machine-tool or length measuring machine. Comprising at least one rotative magnetic memoir member, at least one generator device of electric impulses.

64229. CHAS. PFIZER & CO., INC. Acyl ester of oleandomycin and process for the preparation thereof. (Addition to No. 61049). Triacyl oleandomycin is produced by contacting oleandomycin with an acid anhydride in the presence of an organic base and if desired the product is deesterified to a di- or a mono-acyl ester.

64230. Union Carbide Corporation. Blowpipe type sigma torch. Comprises a handle with wire guide tube contractor tip a gas manifold and a gas directing nozzle.

64231. Standard Telephones and Cables Limited. Improvements in finger plate and spindle assemblies for a telephone impulsing dial. (October 9, 1957.) Comprising a spindle and a finger plate moulded thereon from nylon, gear wheel being moulded on an integral boss.

64232. Standard Telephones and Cables Limited. Improvements in or relating to amplifiers employing transistors. (October 29, 1957.) Two or more pairs of transistors arranged in a push-pull circuit, in which emitter-base circuits are arranged in such manner that signal waves to be amplified pass through emitter base circuits all in series.

64233. Standard Telephones and Cables Limited. Radio navigation system with beacon identification. Antenna means for producing a rotating asymmetrical radiation pattern and means coupled to it transmit a reference signal each time.

64234. Smitsvon N. V. Improvements in or relating to surface-discharge sparking plugs. Comprising an electrical conductor disposed to provide portions of adjacency and whereof ends are connected to respective terminals of the plug, at the time of condenser discharge sparks passing between said portions of adjacency.

64235. Void.

MAY 30.

64236. Massey-Ferguson Inc. Improvements in friction clutches. (May 30, 1957.) Comprising inner clutch for the tractor ground wheel drive, and an outer clutch for the tractor power take-off drive.

64237. M. A. Chaudary. Improvement in and relating to cotton gins. The moving knife is made half round and the fixed knife is made with a blunt edge.

64238. Shri Ram Institute For Industrial Research. Improvements in or relating to the production of chlorides of aluminium iron or titanium. Producing chlorides of aluminium, iron or titanium, by reacting their oxides with a mixture of producer gas and chlorine.

64239. Merck & Co., Inc. Process for preparing Δ^1 , A trihydroxypregnadienes. (October 18, 1957.) By combining the 3,20-disemicarbazone of a compound of the group consisting of Δ^1 -1,4,3,20 diketo-11- Δ^1 -17, 21-trihydroxy pregnadienes and the 21-lower aliphatic carboxylic acid esters thereof with a dilute mineral acid having a concentration not greater than about 0.5N.

64240. United States Steel Corporation. Apparatus for measuring the thickness of a coating on a base material. Comprising an X-ray tube located, adjacent the base material or path of travel of strip, a diaphragm between the strip and the X-ray tube.

64241. H. W. Burrington. A device for deforming a wall portion of a tubular member to form a joint with a groove portion in an enclosing housing body member. Comprises a cage, a shaft adjustably and rotatably extending into cage, a series of peripherally spaced-apart rollers mounted within cage.

64242. Inland Steel Company. Process for reducing iron oxides. Direct reduction of iron oxide by reducing gas comprising carbon monoxide and hydrogen.

64243. D. R. C. Shah. Improved method of fixing advertising display to roof of vehicle and the like. Consisting an advertising display board having a hole or slot near its middle, a threaded nut held between a fork shaped clamp and also a pair of inverted J-shaped clamp are fitted to the back side of the board, a curved bolt one end of which is rivetted to or otherwise formed integral with a clamp adapted to grip rail or channel running along the side of vehicle roof.

64244. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Method of improving the affinity to printing inks of articles formed from α -olefin polymers. Subjecting the article to the action of a continuous non-disruptive electric discharge.

MAY 31.

64245. The Distillers Company Limited. Cobalamin producing fermentation process. (June 27, 1957.) Fermenting a liquid nutrient medium with a cobalamin producing species of the genus propionibacterium.

64246. D. P. Asar. Improvements in or relating to built up boards. A built up board having a core made up of a piece having rows of corrugations arranged so that the crests of corrugations in one row are staggered with respect to the crests of the corrugations in the adjoining rows.

JUNE 2.

64247. Sindri Fertilizers & Chemicals (Private) Ltd. A process of manufacture of a mixture of hydrated iron oxide and calcium sulphate deposited on a fluffing agent by reacting calcium carbonate with ferrous sulphate for dry removal of sulphurated hydrogen from industrial gases. A mixture of calcium carbonate, ferrous sulphate and fluffing agents is exposed to atmosphere till the reaction is over and the oxidation and hydrolysis of the resultant iron carbonate is complete.

64248. Void.

64249. PECHINEY Compagnie de Produits Chimiques et Electro-metallurgiques. Furnace for the continuous production of aluminium nitride. Consisting of tight vertical retorts inside which aluminium oxide-carbon pellets flow down and nitrogen flow from bottom the counter current.

64250. American Cyanamid Company. Preparation of demethyltetracycline. [Divided out of No. 60561 and ante-dated to May 21, 1957.] Dehalogenating chlorodemethyltetracycline or bromodemethyltetracycline by catalytic hydrogenation.

64251. Dunlop Rubber Company Limited. Method and apparatus for moulding inflated articles. Applying fluid pressure to the exterior of an article to reduce its dimensions below the dimensions of mould cavity, closing mould with article and releasing fluid pressure.

64252. Gresham & Craven Limited. Improvements in relief valves for vacuum braking Apparatus. (June 12, 1957.) Associated with a vacuum conduit and comprising a valve member operable to admit atmospheric air to the conduit.

64253. United States Steel Corporation. Method and apparatus for treating fluidized solids. Solids continuously supplied to a fluidized bed are continuously discharged therefrom through a vertically extending fluidized column elevated by fluo-static pressure of said bed.

64254. United States Steel Corporation. Process and apparatus for treating finely divided solids with fluidizing gases in successive beds. Discharging solids from first chamber to the top of a downwardly flowing column, and then from the bottom of the former column to the bottom of an upwardly flowing column and finally to a second chamber.

64255. Union Carbide Corporation. Non-blocking polyolefin compositions. Comprising a mixture of a solid polyolefin and 13-docosenamide.

64256. United Merchants and Manufacturers, Inc. Textile colouring emulsions. Emulsion consists of an outer water phase having dissolved therein a water soluble formaldehyde sulphonylate reducing agent and a water soluble caseinate or soyabean proteinate which inhibits oxidation of said reducing agent.

64257. The British Rubber Producers' Research Association. Improvements in the preparation of polymeric mixtures and compounds. (June 14, 1957.) [Addition to No. 62355.] The particles of polymer mixture are compacted between solid surfaces which move relative to one another so that the particles are sheared.

JUNE 3.

64258. Technical Enterprises Inc. and G. Hira & Company. Improvements relating to cyclone separator. Comprising a vertically disposed cone the wall of which diverges upwardly, a lateral tangentially arranged gaseous inlet port in the wall of the cone, a solids discharge valve at the bottom of the cone, a lid covering the top of the cone, and a cylindrical gaseous outlet pipe coaxial alignment with the cone.

64259. Imperial Chemical Industries Limited. Polymerisation catalysts. (June 12, 1957.) A titanium/tin alloy is mixed with an alkyl halide or an alkylene halide.

64260. Imperial Chemical Industries Limited. Apparatus in which photopolymerisation reactions may be carried out under high pressures. (June 26, 1957.) Comprising cylindrical pressure vessel with internal quartzliner fitted with stirrers and tubular lamps in space surrounding said liner.

64261. American Cyanamid Company. Improved absorbable hemostatic sponge material. Comprising from about 40 to 80 per cent. by weight of cooked starch and from about 20 to 60 per cent. by weight of gelatin.

64262. The McDowell Manufacturing Company. Method and apparatus for forming a tongue and groove interlocking joint between a pair of hollow wall members. Simultaneously expanding an annular wall band of the inner wall member into the latching groove of the outer member, and expanding and peening adjacent side portions of the inner wall member upon the outer wall member.

64263. Casablancas High Draft Company Limited. Improvements in textile fibre drafting mechanisms. (July 30, 1957.) The roller stand cover incorporates lubricant absorbent pads making light contact with the roller necks.

64264. Merck & Co., Inc. Process for the recovery of aromatic hydrocarbons from hydrocarbon mixtures containing the same. (June 26, 1957.) Contacting hydrocarbon mixture with 2:5-dihydroxymethyl tetrahydro furan and recovering the aromatic constituents from the solvent.

64265. Olin Mathieson Chemical Corporation. Synthesis of steroids. Reducing and subsequently dehydrobrominating 12-bromopregnane-3- α -ol-11,20-dione.

64266. The British Oxygen Company Limited. Refining of lead. (June 21, 1957.) Refining lead by pouring molten lead and allowing it to fall through a space containing an oxidising atmosphere.

64267. Quigley Company, Inc. A heat resisting chrome ore composition. Chrome ore composition comprising a mixture of chrome ore and a small amount of a suspension agent such as colloidal clay, and the free iron oxide amounting to between 4 per cent. and 6 per cent.

64268. E. I. du Pont de Nemours and Company. Shaped structures comprising synthetic polymers and process for their production. Made up of very thin film or ribbon-like structural units wherein molecules and/or crystallites of the polymer are oriented in the as-spun or extruded state.

64269. E. I. du Pont de Nemours and Company. Yarn-like structures and process for their production. Strand is subjected to the beating action of an irregularly turbulent fluid while said strand is kept slack or at a very low tension.

64270. FARBWERKE HOECHST AKTIENGESSELLSCHAFT vormals Meister Lucius & Bruning. Process of preparing new-benzene-sulfonyl-benzyl-ureas, and pharmaceutical preparations containing such ureas. Reacting benzene sulfonyl carbamic acid methyl ester or derivative thereof with benzyl-amine or derivatives thereof.

64271. Carding Specialists (Canada) Limited. Improvements in or relating to carding engines. Feeding wool locks to a train of at least two co-operating carding rollers rotating in opposite directions at successively increased speeds, the second carding roller stripping the first and submitting the locks to a divider roller.

64272. Farbenfabriken Bayer Aktiengesellschaft. Composition for the production of moulded bodies having high impact and notch impact strength. (April 21, 1958.) Comprises a mixture of (1) 10 to 75 parts by weight of a rubber-like conjugated diolefine having 4 to 6 carbon atoms and acrylonitrile and (2) 25 to 90 parts by weight of a thermoplastic copolymer of styrene, acrylonitrile.

64273. A. Buchi. Control device for four-stroke internal combustion engines. Actuating means for the inlet valve and exhaust valve are so designed that the closure of the valve is affected only when the strokes of two valves corrected substantially asymptotically.

64274. Ibec Housing Corporation. Brick making apparatus. Lever fulcrumed to cover for actuating piston toward the cover to compress block fitting ingredient.

JUNE 4.

64275. The Yale and Towne Manufacturing Company. A guide arrangement for a hydraulic line on an industrial truck. Hydraulic line extending between the truck and load moving member and including a hose, guiding means mounting a part of the hose for longitudinal movement.

64276. The Yale and Towne Manufacturing Company Power operated lifting truck. Two relatively movable components being connected respectively to two relatively movable members provided by upright structure and load carriage.

64277. The Yale and Towne Manufacturing Company. Steering mechanism for an industrial truck. A pair of gears angularly movable with the pair of wheels respectively, the peripheries of said gears being eccentric in relation to the steering axes.

64278. The Yale and Towne Manufacturing Company. Inching control for torque transmission for industrial trucks. Means whereby either of the brake pedals operates a part of the brake system to apply brake of the truck and means for actuation of one of said pedals operating control valve to disengage either of clutches.

64279. The Yale and Towne Manufacturing Company. Industrial trucks. A pair of spaced yieldable means mounting the axle for angular movement

relatively to the main frame about a pair of axes parallel to longitudinal axis of the frame respectively while resisting angular movement.

64280. The British Thomson-Houston Company Limited. Improvements in and relating to rolling mills. (June 14, 1957.) Having separate driving motors substantially axially aligned with rolls and positioned axially aligned with the rolls.

64281. Graviner Manufacturing Company Limited and Wilkinson Sword Limited. Improvements in or relating to radiation detection and indicating devices. (June 14, 1957.) Comprising a number of radiation detection devices each arranged to receive radiation of predetermined kinds from a different part of an area or volume which is to be monitored a number of indicating devices, and means for electrically connecting each of detection devices.

64282. J. B. Withnell Limited. Improvements in healds for looms. (February 19, 1958). The loops are of a synthetic monofil of round section.

64283. Imperial Chemical Industries Limited. Water-soluble latent curing catalysts for textile treatment resins. (June 12, 1957.) Treating the textile materials with an aqueous solution containing a resin-forming composition and a water soluble holo-geo-1:3:5-triazine as a latent curing catalyst.

64284. Sulzer Freres, Societe Anonyme. Construction and manufacture of electrically-driven fan sets. Characterised by atleast one pedestal intended to take a bearing assembly for fan runner.

64285. SULZER FRERES. Societe Anonyme. A bearing assembly for the shaft of a fan of overhung design. Wherein the housing is provided with two inner annular projections adapted to receive anti-friction or plain bearings in the annular spaces between the shaft and said projections.

64286. Sulzer Freres Societe Anonyme. Fan with a fan casing and a base plate having vertical struts. Matching projections are provided in the fan casing and in vertical struts attached to base plate there are at least 3 key guides to act between casing and base plate against relative horizontal movement.

64287. Vokes Limited. Improvements in air or gas filters. (June 7, 1957.) A main frame for supporting the spools and providing flat surfaces at the periphery of the filtering area and a subsidiary frame carrying guide rollers for the filter web and mounted in the frame.

64288. Lindauer Dornier Gesellschaft m.b.H. A fast reed warp protector motion. (June 13, 1957). The tongue is retained in the raised position by a fixed circular cam during the shuttle cross-over a finger attached to the tongue so that it will pass over the frog when the shuttle is in the box.

64289. Ciba Limited. New cyclo-pregnanes and process for their manufacture. Heating 21-diazo-20-oxo-pregnane compound in presence of a metal oxide.

64290. Licencia Talalmanyokat Ertekesito Vallalat. A hot bulb internal combustion engine. Characterized by that the median line of the fuel nozzle is directed to the centre of the hot bulb, which is first touched by the streaming air.

64291. National Malleable and Steel Casting Company. Improvements in or relating to coupler and yoke connection. Comprising a yoke having a hollow head portion, a coupler having a shouldered butt end received in the head portion.

64292. H. B. Cannon. A slurry separating apparatus. (September 12 1957). Comprising a slurry separating apparatus, having a spoke like array of convergent troughs which slope down and radially inward to a common outlet circle.

64293. Vold.

JUNE 5.

64294. Void.

64295. The Firestone Tire and Rubber Company. Improvements in or relating to vehicle wheels. (March 11, 1958). Comprising a disc body portion, a rim and co-operating means attached to the disc and rim for effecting axial movement of the rim relative to the disc.

64296. The Firestone Tire & Rubber Company. Improvements in or relating to vehicle wheels. (March 25, 1958). Comprising a central disc portion and a tire rim, rim securing means attached to the peripheral edge means including fixed brackets disposed substantially diametrically opposite jack screws.

64297. De Wendel A Cie—Societe Anonyme. Pipe making machine. Comprises shapping rollers, means for feeding the strip material to shaping rollers at a predetermined angle relatively to the axis of shaping rollers.

64298. Henry Wiggin & Company Limited. Improvements relating to processes of and apparatus for extruding metals. (June 7, 1957). Extrusion of billet wherein the movement of the material during extrusion is resisted by back pressure exerted in a direction opposite to that of the movement of the extrusion ram and applied over the whole of the cross-section of the leading end of the extruded material.

JUNE 6.

64299. Void.

64300. American Home Products Corporation. Skin treatment composition. Consists of aqueous garlic extract and castor oil.

64301. Void.

JUNE 7.

64302. N. V. De Bataafsche Petroleum Maatschappij. Fungicidal, coating compositions. Comprising a hydrocarbon oil bituminous substance and/or a wax and less than 2.5 per cent. of a fungicide.

64303. The General Electric Company Limited. Improvements in or relating to grilling apparatus. (June 14, 1957). Wherein supporting the grill pan, a slidable carriage is slidable from a position where it is beneath the grilling means to a position clear of the said means.

64304. Chas. Pfizer & Co., Inc. Process for preparing a pharmaceutical composition. Incorporating 1:1'-methylene-bis (2-hydroxynaphthalene-3-carboxylic acid salt of N.P.-chlorobenzhydryl-N'-(2-hydroxyethoxyethyl)piperazine in a pharmaceutically acceptable carrier.

JUNE 9.

64305. Whessoe Limited. Apparatus for guiding a work head operating on a curved surface. Comprising a main radius arm for securing work head which extend away from workpiece surface and supported by an universal bearing, a secondary radius arm connected at one end of main arm and disposed at angle and arranged as former arm.

64306. WHESOE LIMITED. New or improved means for guiding a work head over a work piece. A plurality of support members for the track secured to the work piece and distributed at intervals along the track length.

64307. R-N Corporation. Iron recovery process. Reducing iron ore in presence of carbonaceous values below fusion point of iron, and the resulting metallic iron product is grinded and separated by magnetic method.

64308. Void.

64309. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improvements in the process for the production of hydrogen peroxide from

alkyl anthraquinones by using new solvents. [Addition to No. 62374.] Alkylanthraquinones are dissolved in a solvent capable of maintaining in solution both the quinonic and the hydroquinonic form of the working products.

64310. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica. Elastomers obtained from alphaolefin polymers and copolymers and process for their preparation. Cross-linking amorphous linear high molecular weight polymer in presence of an activator acting with radical mechanism by polymerisable aromatic hydrocarbon containing ethylenic double bond.

64311. A. D. Harford and H. W. Vernon. Pest combatting composition. Comprises of pyrethrin and iso-butyl undecylenamide and sesaine oil.

64312. Ciba Limited. Process for improving the fastness to light of films and coatings. Before producing the film or coating from a polymer containing acid groups, and obtained from a monomer containing one $\begin{array}{c} | \quad | \\ \text{C}=\text{C} \\ | \quad | \end{array}$ grouping, a water-soluble compound capable of forming stable water soluble complexes with heavy metal ions is added to the polymer.

64313. Ciba Limited. New cobaltiferous azo-dyestuffs and their manufacture. Treating mono-azo dyestuff with an agent yielding cobalt.

64314. Void.

64315. Void.

64316. Ciba Limited. New morphanthridine compounds and process for their manufacture. Textiary amino alkyl residue is introduced into morphanthridine type compounds.

64317. Ciba Limited. A new thiazolidine derivative and a process for its manufacture. Reacting 1:3-bis(4-isopentyloxy-phenyl)-2-thiourea with a reactive ester of 1:2-ethanediol.

64318. Ciba Limited. New 4-thiazoline-2-one compounds and process for the manufacture thereof. 2, 3 or 4-bromoacetyl pyridine hydrobromide is reacted with alkyl N-alkyl thiocarbamate.

64319. J. N. Vazifdar. Traffic signal lamp controllers. A safety indicator employed with traffic controllers comprises a visible indicator which progressively lights up during the interval the signal changes from one colour to the other.

64320. Bassinger Tool Company. Fluid actuated impact tool. Fluid powered impact tool in which the anvil extends a sliding connection with the supporting structure and not only permits variation in the amount of percussive energy from the hammer but also transmission of torque to the anvil.

64321. SMITH KLINE & FRENCH LABORATORIES. Improvements in or relating to substituted phenothiazinyl trifluoromethyl sulfones. Trifluoromethyl sulfonyl-substituted 2-amino-2'-halo diphenyl sulphides are heated in the presence of an acid-binding agent and the product condensed with a reactive tertiary aminoalkyl ester or salt thereof.

JUNE 10.

64322. Dharendra Nath Ghosh. An improved continuous Electro-chemical process for the simultaneous deionisation and clarification of beet and sugarcane juices and their residues by subjecting them to direct current Electrolysis with Mercury cathode and anodes of carbon, Aluminium, Iron or Steel. Subjecting beet and sugarcane juices to Direct current electrolysis.

64323. Director, Haffkine Institute. A process for the preparation of substituted benzenesulphonyl ureas. Treating corresponding N'-(4-methyl benzene sulphonyl)-N³-alkyl or aryl thiourea with hydrogen peroxide.

64324. Pending.

64325. Pending.

64326. Smith Kline & French Laboratories. Improvements in or relating to substituted trifluoromethoxy and trifluoromethylmercaptophenothiazines. Heating trifluoromethoxy-or trifluoromethyl mercapto-substituted-2-amino-2'-halodiphenyl sulfide in presence of acid binding agent.

64327. L. Von Roll A. G. Improvements in or relating to electrolytic processes. Effecting electrolysis using as electrolyte aqueous hydrochloric and containing not exceeding 0.1 mol per dm³ of cathode surface of a salt of a metal having low hydrogen over-voltage.

64328. Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of dyestuffs. (March 18, 1958.) Subjecting mixtures of substituted and/or unsubstituted 1-amino-3-imino-4-: 7-dethia-4-: 5-6: 7-tetra hydroisoidolenines with 3: 4-disubstituted 2-amino-5-imino-pyrrolenines to heat treatment on a substrate in the presence of heavy metal compounds.

64329. Colgate-Palmolive Company. Clear aqueous composition containing lanolin. Intimately mixing lanolin with a higher aliphatic acid alkylolamide and dissolving the mixture in water.

64330. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Polymerisation catalysts and their use for the polymerisation of unsaturated hydrocarbons. Reacting an alkyl- or aryl derivatives of bis-(cyclopenta diemyl) complex of Ti, Cr, or V with a halide of a transitional metal of Grs IV to VIII of the periodic table.

64331. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to semi-conductive electrode systems. Electrode wire secured to the semiconductor body by fusion, envelope of said wire consisting of aluminium and having a thick genetic oxide layer on its cylindrical outer surface and fusion of aluminium taking place without breakage of said oxide layer.

64332. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to burner devices for liquid fuel. In which the fuel can flow to atleast one vaporiser which is connected *via* a shutter, a nozzle and a mixing tube to a burner, atleast one supply line for fuel including a safety device for cutting of fuel.

64333. Ciba Limited. Method of and apparatus for producing granulates by spray drying. By means of a spraying device in a drying chamber in which a collecting member is arranged in the path of small sprayed particles.

64334. Void.

64335. Void.

64336. Ciba Limited. Process for the manufacture of 2, 3-dihydro-benzisothiazol-3-one-1, 1-dioxides and salts thereof. Cyclizing 3-R_n, 6-disulfamyl-benzoic acid to form 2, 3-dihydro-benzisothiazolone-3-one-1, 1-dioxide.

64337. Void.

64338. Asahi Kasei Kogyo Kabushiki Kaisha. A continuous method for the manufacture of a basic cupric salt and an apparatus thereof. Producing basic cupric salt by mixing in aqueous solution at a temperature of 10° to 30° C. and a pH of 6.5 to 7.5, cupric sulphate with a member selected from the group consisting of ammonia and cupric tetramine sulphate.

JUNE 11.

64339. Klockner-Humboldt-deutz Aktiengesellschaft. A device for the sink-float preparation of minerals. (May 16, 1958.) By means of suspension of water and fine grained solid substance wherein the raw material is supplied at one end of the separating vessel.

64340. Aluminium Laboratories Limited. Electrolyte for aluminium reduction. Electrolyte comprising 4—9 per cent sodium chloride, 6—9 per cent calcium fluoride or magnesium fluoride, the balance being sodium fluoride and aluminium fluoride in the ratio by weight of 1.10—1.60 parts: 1 part respectively.

64341. British Insulated Callender's Cables Limited. Improvements in or relating to electric cable joints. (June 26, 1957.) Comprising a metal joint sleeve and surrounding the sheath of each cable length, a metal tube sealed to the adjacent end of the joint sleeve by a wiped metal or cast plumb joint.

64342. British Insulated Callender's Cables Limited. Improvements in or relating to the protection of electrical circuits. (June 19, 1957.) Apparatus comprising at least one power-factor sensitive relay which responds only to a change in circuit conditions in its own friction and is inoperative for faults in a neighbouring section.

64343. C. A. V. Limited. Instruments for measuring the curvature of curved surfaces. (June 20, 1957.) Comprising a rotatable and axially movable member, a stylus occupying an eccentric position on the said member and means for measuring axial displacement of the said member.

64344. Aktiebolaget Astra., Apotekarnes Kemiska Fabriker. A method for preparing clinically useful local anaesthetics. By reacting two compounds of the general formulas $O-CH_2-C_6H_4-X$ and $Y-Z$ wherein Z represents NHR or an atom convertible thereto and X and Y represents atom capable of reacting together to form the acylamino bridge.

64345. Pending.

64346. Sandoz Ltd. Process for the preparation of the Lactones of Isodeserpentic Acid and Isoreserpentic Acid. (April 3, 1958.) A corresponding 3-dehydrolactone is reduced by known methods.

64347. Sandoz Ltd. Process for the manufacture of reserpine-like compounds. (April 3, 1958.) A substituted deserpic lactone is converted into a methyl ester and the 18-OH group is esterified by acids excepting trimethoxy benzoic/cinnamoyl acid.

64348. Sandoz Ltd. Improvements in or relating to phenthiazine derivatives. (April 2, 1958.) A 3-alkylmercapto phenthiazine 10-carboxylic halide is reacted with an amino alcohol and the resulting ester is decarboxylated.

64349. Lonza Electric and Chemical Works Limited. Process for the extrusion of tubular sheets of thermoplastic material. Extruding from an opening in form of tube into which inert gas is injecting to mix with vapours of volatile constituents evolved.

64350. Komline-Sanderson Engineering Corporation. Method and apparatus for sewage treatment. Sludge is pumped from the clarifying stage toward drum type vacuum filter without subjecting it to a digestion period, coarse filtering medium is employed in said filter.

64351. Madura Company Private Limited. Improvements in or relating to roofing tiles. Provided with a cross rib near the lower end on its back side for double interlock.

JUNE 12.

64352. Council of Scientific and Industrial Research. A method for the extraction of diosgenin from dioscorea tubers. Digesting powdered dioscorea containing diosgenin tubers with 4—6 per cent boiling hydrochloric acid.

64353. Council of Scientific and Industrial Research. Improvement in the manufacture of furan compounds. Reacting furfural with hydrogen in the presence of a catalyst consisting of oxides of copper and chromium, said reaction being conducted in a fluidised bed.

64354. Council of Scientific and Industrial Research. A process for the production of an enzyme product for use in leather manufacture as a depilant or for the preparation of bates. Mixing pulped animal pancreas and mold *Aspergillus oryzae* developed on culture of wheat flour $CaCl_2$ like metallic salts.

64355. Void.

64356. C. Appel and Wertheim-Werke Aktiengesellschaft. Well lift. Characterized by prefabricated well elements which confine cross-section of the well on all sides and have a height which corresponds to a fraction of the total height of the well.

64357. Union Carbide Corporation. Aminosilicon treated metals and methods of treatment and production. Comprises forming on the surface of the metal or alloy a film of an aminoalkyl silicon compound containing the group ($=N-R-Si=$), where R is divalent saturated aliphatic or saturated or unsaturated cyclic hydrocarbon radical having a chain of at least 3 carbon atoms.

64358. Parke, Davis & Company. Process for the production of acridinyl-amino-O-cresol 10-oxide compounds. Reacting a 6-chloro-9-haloacridine, 10-oxide compound with an aminokhenol.

64359. Parke, Davis & Company. Process for producing diamine compounds. Reacting a 1-halo-4-methyl-10-thiaxanthene with an N-methyl amino alkylamine.

64360. The Goodyear Tire & Rubber Company. Improvements in or relating to the manufacture of extruded, vulcanized elastomeric hose. Which includes the steps of submerging the uncured hose in a water filled container and then heating the water until the hose is vulcanised.

64361. The British Rubber Producers' Research Association. Improvements in the preparation of polymeric mixture and compounds. (July 10, 1957.) [Addition to No. 62355.] The particles of polymer mixture are sheared between two contacting surfaces wherein the mixture contains a small amount of an organic compound dispersible in the mixture.

64362. Ciba Limited. New imidazolidines and a process for their manufacture. Intermolecularly condensing 3-amino-pyrazole containing in 2-position a reactive hydroxyl group to the pyrazole [2:3-a]-imidazolidine.

64363. Void.

64364. Pending.

64365. A Reineck. Improvements in or relating to pipe coupling. Threadless couplings for plastic pipes comprise split ring elements and a coil spring arranged over an elastic sleeve and the unit covered by two plastic sleeves and protective caps and rings.

64366. Council of Scientific and Industrial Research. Developments in or relating to the production of oils and fats having materials for detecting their adulteration and preservation against spoilage. Comprising fatty material and alkylated dihydroxy diphenylmethane.

JUNE 13.

64367. Dynamit-Actien-Gesellschaft. Vormals Alfred Nobel & Co. Improvements in or relating to practice shells for artillery. A percussion fuse located at forward end a smoke charge located at the rear end of the shell, and disposed between said fuse and smoke charge a percussion cap containing a propellant charge.

64368. Pending.

64369. Pending.

64370. Pending.

64371. Pending.

64372. Pending.

64373. Pending.

64374. Pending.

64375. Pending.

64376. Westinghouse Brake & Signal Company Limited. Automatically acting valve for the transfer of liquid between gaseous fluid zones at differing pressures. (June 28, 1957.) Automatically acting valve for transfer of liquid between two pressure zones comprises a chamber defined by a sliding valve member and means responsive to fluctuation of extreme values of pressure.

64377. Void.

64378. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Thermoplastic composition and a method for its production. Comprising a uniform mixture of isotactic polypropylene with solid polyisobutene.

64379. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica. Improved elastomers and their preparation. Vulcanising mixture of α -olefin polymer or copolymer with natural rubber and/or highly unsaturated synthetic rubber and activator releasing free radical.

64380. Molins Machine Company Limited. Improvements in or relating to the manufacture of composite mouthpiece cigarettes. (June 20, 1957.) Axially aligning parts of a group of cigarette length and stub while the parts are free to move relatively to each other, and applying endwise pressure to the group to bring the end surfaces of the parts into close abutting contact.

64381. H. T. Flanagan. Improvements relating to door, window or like catch devices. (June 13, 1957.) Comprises a catch retained in a housing and including a fulcrummed bell-crank lever actuated by a ball when one door-like member engages with the other.

64382. Slazengers Limited. Improvements in or relating to sports rackets. (June 14, 1957.) Consist in locating one or more sleeved eyelet elements in each of selected holes in the racket frame for the passage therethrough of the string or strings.

64383. Slazengers Limited. Improvements in or relating to hockey sticks. (June 14, 1957.) Cutting off along a predetermined curve a piece from the lower part near the toe-end from hockey stick bend, coating the upper edge face with adhesive, transferring and joining the cut-off piece by pressure to form a firm joint.

JUNE 14.

64384. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Process for purifying high molecular weight olefin copolymers. Emulsifying a solution of copolymer of α -olefins in a hydrocarbon solvent with an aqueous mineral acid, removing the aqueous layer and emulsifying the other layer.

64385. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Improved thermoplastic materials. Consist of crystalline polypropylene in admixture with a solid propylene-ethylene copolymer.

64386. Carter Products, Inc. Improvements in or relating to therapeutic agent useful in the treatment of nervous disorders. A therapeutical composition for treatment of nervous disorders containing 2-methyl-2-n-propyl-1, 3-propanediol dicarbamate and 2-diethylaminoethyl.

64387. American Flange & Manufacturing Co. Inc. Container closures and methods for forming the same. (May 21, 1958.) Standard openings of a single size and formations are formed in container walls for the reception of a variety of closure assemblies which are clinched thereon.

64388. Pending.

64389. Imperial Chemical Industries Limited. New polymerisation process. [Divided out of No. 61240 and ante-dated to July 26, 1957.] Mixing ethylene under pressure with the product obtained by treating vanadium dichloride with aluminium halide.

JUNE 16.

64390. Void.

64391. B. S. Chothia. Improving the efficiency of commercial carburetors by rectifying some of the inherent deficiencies in such carburetors and thereby effecting greater economy of fuel consumption, as also for providing an improved method of lubricating the upper-cylinders or engines. A closed vertical cylinder with air vents bored into the stem of its upper cap as also along its sides with a floating piston inside such cylinder.

64392. Tootal Broadhurst Lee Company Limited. Improvements in and relating to the treatment of fabrics. (June 19, 1957.) Treating fabrics with a product of reaction between formaldehyde, urea and glyoxal.

64393. Gadelius & Co. Aktiebolag. Stepless variable mechanical gear. Comprising at least one first wheel rotatably mounted and having a circular guide track concentric with the axis of rotation of the wheel, a plurality of individual gear teeth being slidably displaceably mounted along track and spaced apart by means of at least one or preferably two follower discs mounted on either side of first wheel.

64394. Imperial Chemical Industries Limited. Process for drying metal articles. (July 31, 1957.) Treating water-contaminated surfaces of metallic articles with a chlorinated hydrocarbon solvent containing dissolved therein a small proportion of a cationic surface active agent.

64395. Unilever Limited. Dispensing device. (July 3, 1957.) Comprising a spout with a closed end, having in its wall at least two grooves.

64396. National Petro-Chemicals Corporation. Ethylene polymerization process. Polymerising ethylene in two different stages wherein in the first stage low temperature is maintained and in the second stage higher temperature is maintained.

64397. Societe Anonyme Des Manufactures Des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Improvements in apparatus for the manufacture of fibres, particularly glass fibres. Band is so shaped that the portion of the flame or gas striking it will spread and be directed towards current of gas or flame to limit duration towards top of body.

64398. Boots Pure Drug Company Limited. New organic sulphonamido isothiocyanates. [Divided out of No. 59528 and ante-dated to January 31, 1957.] Comprising as active ingredient di-4-isothiocyanatophenyl sulphone together with-diluent or carrier.

64399. Void.

64400. H. E. Chatfield. Improvements in or relating to tyres. (June 27, 1957.) Formed of an electrically insulating, resiliently distortable material, wherein electrically conductive elements are embedded in the walls of the tyre.

64401. Pilkington Brothers Limited. Improvements in or relating to multiple glazed window units. (June 18, 1957.) Glass panes are stacked on a support and are interposed by marginal spacer elements of glass and then being pre-heated before the edges being welded to form the integral unit.

JUNE 17.

64402. Void.

64403. Coalite and Chemical Products Limited. Improvements in or relating to aryl phosphates. Mixture of aryl phosphates free from phosphates containing one or more orthoalkylphenyl radicals.

64404. G. Alacchi. Undercutter for cutting coal or other minerals. Comprises of a frame, a power source supported on the frame, at least one cutter tool supported on the frame and drivable from said power source.

64405. J. R. Geigy A.-G. New azepine derivatives. By reacting N-halogen alkanoyl-iminostilbene with an amine and if desired treating the resultant tertiary amine with a reactive ester of an alcohol.

64406. G. Messner. Method for making aluminium from aluminium alloys. Treating aluminium alloys in presence of mercury in which the liquid aluminium alloy is sprayed over the vigorously agitated surface of the liquid mercury.

64407. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to U-like sodium-vapour discharge tubes. Surrounded by a cylindrical vessel and having its limbs arranged parallel to each other and to the longitudinal axis of the vessel.

64408. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to electric flash bulbs. Containing a cobalto-cobalti-cyamide containing indicator mixed with a solid finely divided inert filler.

64409. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to electric flash bulbs. Comprising two or more lacquer layers containing luminescent materials, characterised in that each layer luminesces in a different colour.

JUNE 18.

64410. Indian Telephone Industries Private Limited. Improved automatic road traffic signalling system. Timings of generating sequential timed signals are fixed by the constant of a C-R circuit in conjunction with a cold cathode trigger tube.

64411. Commissariat A L'Energie Atomique. Improvements in purification apparatus for removal of impurities from fluids, in particular for mass spectrometer circuits. Comprises a supporting block, a cup shaped vessel, the block being provided with two channels extending therethrough and opening into the upper face of the block the channel services to feed of soiled fluid and to the outflow or purified fluids.

64412. Joseph Lucas (Industries) Limited. Electromagnetic switches. (June 26, 1957.) Of the kind comprising an electromagnet, an armature for actuating a movable contact, and a blade spring for loading the armature in opposition to the electromagnet.

64413. Skanska Cementaktiebolaget. Improved device for fastening rails. To an underlying support comprising an essentially C-shaped clamping members of spring steel mounted to grip with its ends.

64414. D. K. Dhand. Improvements in or relating to fulcrum knives for weighing machines. Having two knife edges adapted to function as the fulcrum knife edges of the machine and in between the said two knife edges, one or two knife edges adapted to function as the load knife edges thereof.

JUNE 19.

64415. Bishnu Charan Banerjee. An improved method for producing citric acid by fermentation. Cultivating strain of "Aspergillus" in aqueous nutrient medium containing source of carbohydrate, protein and sugar.

64416. Farbenfabriken Bayer Aktiengesellschaft. Process for the production of phthalocyanine-sulphonamides and carbonamides. (April 18, 1958.) Reacting phthalocyanine containing labile halogen atoms with an ester of a coupling hydroxy compound containing amino group.

64417. Creed & Company Limited. Improvements in or relating to platen arrangements for teleprinters and the like. (November 1, 1957.) Comprising two series of pins arranged around the platen near respective ends thereof, spring pressure means for retracting said pins, two interconnected cam members within the interior of the platen and means operable to move both cam members.

64418. Creed & Company Limited. Improvements in or relating to tape winders. (December 6, 1957.) Comprising a motor, and means for reversing the drive of the motor when tension of a tape to be wound on a reel exceeds a predetermined value.

64419. Standard Telephones and Cables Limited. Improvements in or relating to printed circuits. (August 16, 1957.) [Addition to No. 61752.] Shaping or planing tool used in the manufacture of "printed" circuits.

JUNE 20.

64420. Director, Institute of Agriculture. Improvements in or relating to farming hoe. Comprising of a long wooden beam at fore ends and aft ends are fitted with a hitching hook and a handle with a grip respectively.

64421. Monsanto Chemicals Limited. Improvements relating to the treatment of textiles. (June 26, 1957.) [Addition to No. 59617.] Treating textiles with an aqueous oil emulsion in which silica is colloiddally dispersed in the oil phase.

64422. Union Carbide Corporation. Polyethylene structures. Contacting thin heat-softened polyethylene film with fibrous polyalkylene fabric and pressing these together.

64423. Knorr-Bremse G.m.b.H. Vacuum brake arrangement for rail vehicles. Wherein the vacuum obtaining in a control circuit is arranged to be regulated by means of a driver's brake valve.

64424. Nagynyomasu Kiserleti Intezet. Improvements in the process for the treatment of asphalt containing mineral oils and of other asphalt containing hydrocarbonaceous mixtures poor in hydrogen to produce light and middle oils, with simultaneous refining of the motor fuels obtained. [Addition to No. 53233.] The reaction product is separated in the hot state from heavy oil fraction with the moving catalyst and the fine grained coke, and the vapour phase fraction with hydrogen containing gas is conducted through reactors to effect refining hydrogenation at 1—100 atmospheres.

64425. Void.

JUNE 21.

64426. Void.

64427. Lonza Electric and Chemical Works Limited. Improvements in the process of and arrangement for extruding tubes of thermoplastic material. Tube is moved through tubular sizing means vertically upward and a liquid coolant passing along inner surface of said means counter current to the tubes movement.

64428. Lonza Electric and Chemical Works Limited. Means for use in continuously flattening tubes of plastic film. [Addition to No. 61280.] Two endless conveyor bands intended for conveying the tube to be flattened between rolls and simultaneously converting the cross-section from an annularly circular into a flattened form are located each in one of two planes symmetrically inclined to direction of entry into nip.

64429. Standard Telephones and Cables Limited. Electrical code signal transmitting and receiving equipment in which intelligence is conveyed in the form of signals each represented by a sequence of code elements. Comprising input circuit, code conversion means and transmitting.

64430. Warmex Limited and A. Goldstein. Improvements in and relating to fastening devices. (June 21, 1957.) Comprising socket shaped to pass through assembled apertured parts and having a bore at one end extending out of apertured members and means at other end of socket incapable of being passed through the apertured members, and a plug comprising a stem expanding the open end of the socket when inserted into and retained in the bore thereof.

JUNE 23.

64431. V. K. D. Dighe. Process for obtaining an ayurvedic medicinal beverage for the treatment of lost appetite, nervous mental depression and physical debility. Mixing with plain water. dry figs, raisins, dates, sugar, jaggery, honey, coriander seeds, orange peel ginger, gentian root coconut water, chloral hydrate and yeast, and fermented for a minimum period of twenty-four hours.

64432. The Yale and Towne Manufacturing Company. Industrial trucks. Including a yielding stop against which the handle is positioned and means movable as a result of movement of the handle towards the truck against the action of the yielding stop.

64433. Unilever Limited. Improvements relating to the production of soap bars having a sheen. (July 22, 1957.) Comprises extruding the soap in bar and passing it between polishing surfaces which exert a transverse pressure on the bar and which move in a direction parallel with the axis of the bar.

64434. United States Steel Corporation. Vacuum casting apparatus. Comprising a gas tight base member including an upwardly facing bearing surface having a groove therein, and a ring of compressible sealing material disposed in said groove.

64435. Reynolds Metals Company. Cold pressure welding by interposition of brittle or friable substance. The method comprises interposing between the metal layers a layer of brittle or friable substance having a greater strength in compression than the metal of said members.

64436. Olin Mathieson Chemical Corporation. Animal feedstuff for accelerating the growth of animals. Edible carrier mixed with broad-spectrum antibacterial antibiotic and nystatin or amphotericin.

64437. Imperial Chemical Industries Limited. Bonded fibre webs. (July 5, 1957.) Void after publication. Bonding the fibre webs by polyurethane.

64438. Merck & Co., Inc. Substituted piperidines and methods for making same. (September 6, 1957.) By reacting together a p-lower acylamino-phenacyl halide and a 4-carbo-lower alkoxy-4-phenylpiperidine.

64439. Aktiebolaget Electrolux. Improvements in or relating to absorption refrigerating apparatus. Provided with a heat operated liquid circulation pump wherein vapours expelled from strong absorption solution are caused prior to entering the condenser to pass through a column of strong absorption solution for analysing purposes.

64440. Ciba Limited. New benzimidazoles and process for their manufacture. 5-nitro-2-alkyl-benzimidazole is reacted with a reactive ester of the alcohol $\text{HO-CH}_2\text{-CH}_2\text{-NH}$.

64441. Robert Bosch G.m.b.H. Improvements in or relating to commutators. Comprising segments which are embedded in an insulating supporting hub by means of at least three anchoring claws.

64442. Robert Bosch G.m.b.H. Improvements in or relating to commutators. In which each segment carries at least one connecting lug which is formed as a shaving gouged form the surface of the segment.

64443. Simmonds Aerocessories Limited. Improvements relating to cutting elements. (July 11, 1957.) Comprising slitting hardenable sheet metal transversely to the intended direction of cut.

64444. C. W. Cheney and Son Limited, and C. W. Cheney. Improvements relating to hasp fastenings for luggage and like boxes. [Addition to No. 59656.] Wherein the slide is provided remote from the hinge for the hasp. with a hook arranged to engage over the longitudinal edge.

64445. A. J. Buchi. Improvements in or relating to casings for centripetal gas turbines. Wherein gases for driving the turbine are supplied to a side of the casing and are conveyed therefrom to around the diffuser of the turbine.

JUNE 24.

64446. Void.

64447. Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Continuous carbon anodes for fused bath electrolytic cells. Comprising a number of elements formed of a raw paste containing carbon and a binder the proportion of binder being such that their external surfaces retain their form prior to and during baking.

64448. Imperial Chemical Industries Limited. Carpets. (July 5, 1957.) Void after publication. Having an adherent backing comprising polyurethane.

64449. Gevaert Photo-produkten N.V. Sensitized photographic emulsions and new sensitizing dyes. (July 5, 1957.) Light-sensitive silver halide emulsion containing a polymethine dye in which at least one heterocyclic nitrogen atom carrying an organic residue.

64450. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of substituted acid hydrazides. Condensing an acid carrying at substituted acyclic hydrocarbon radical with a substituted hydrazine.

64451. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of substituted acid hydrazides. Condensing an acid having secondary or tertiary alkyl radical or cycloalkyl radical with a hydrazine.

64452. Void.

64453. Ciba Limited. Process for the manufacture of pyrazolopyrimidines. (Addition to No. 56669.) A 3-amino-pyrazole-4-carboxylic acid or a reactive derivative thereof, is condensed with an alkali isocyanate.

64454. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of substituted acid hydrazides. Condensing acid, R_1 CoOH with substituted hydrazine $H_2N-NH-R_2$ in presence of N, N' -disubstituted carbodiimide when R_1 is alicyclic hydrocarbon radical of 12—20 C.-atoms and 6 C-atoms respectively.

64455. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of substituted acid hydrazides. Condensing acid, R_1 CoOH with substituted hydrazine $H_2N-NH-R_2$ in presence of N, N' di-substituted carbodiimide when R_1 is substituted phenyl radical of 1-2 C-atoms R_2 is alicyclic hydrocarbon radical with 1—6 carbon atoms.

64456. Franz Muller Maschinenfabrik K.G. Improvements in or relating to textile winding machines. Each split drum is constructed of two drum parts which are internally unconnected and separated from one another by a gap.

JUNE 25.

64457. Council of Scientific and Industrial Research. A process for the manufacture of malted milk powder. Mixing concentrated malt extract with milk powder fat and carbohydrates and drying in vacuum driers.

64458. Council of Scientific and Industrial Research. A process for the manufacture of malted milk beverage flavoured with cocoa. Mixing milk powder with malt extract and flavouring with cocoa caramel or the like and drying in a vacuum drier or under atmospheric pressure.

64459. Pending.

64460. A. E. Saloranta and E. Puronto. Improvements in fuses for shells, especially for shell throwers. Slider having hole for accommodating rear end of lock-bolt, the firing pin and lock-bolt performing rearward movement upon firing while lock-bolt is engaging with one side of hole in slider and release balls normally holding lock-bolt in the hole in slider but upon rearward movement of lock-bolt allowing movement of lock-bolt out of engagement with slider. Lock-bolt and firing pin provided with support spring.

64461. Babcock & Wilcox Limited. Improvements in or relating to tubulous heat exchangers and to a method of forming a tube wall. (June 28, 1957.)

Each tube including an odd number of limbs parallel to one another and connected by fluid return means and adjacent limbs being welded together.

64462. J. A. Mackenzie. Pierced angle element for constructional purposes. Of constant thickness and of L-shaped cross-section having a narrow flange and a wide flange, a row of holes extending longitudinally of the flange.

64463. Merck & Co., Inc. Natriuretic pharmaceutical compositions. (October 1, 1956.) [Divided out of No. 60200 and ante-dated to April 15, 1957.] Consists of 4:5-dichlorobenzene-1:3-disulfonamide in admixture with a carrier or diluent therefor.

64464. American-Marietta Company. Method of making pigment and products thereof. Contacting aluminium flake with aqueous solution containing orthophosphoric acid.

64465. Metropolitan-Vickers Electrical Company Limited. Improvements relating to electric welding circuit arrangements. (July 17, 1957.) An electric welding circuit arrangement having a heavy duty variable resistance device for use as a coarse current control unit and providing an auxiliary saturable core reactance device having one or more A.C. winding connected in the supply circuit.

64466. Metropolitan-Vickers Electrical Company Limited. Improvements relating to electric welding arrangements. (July 17, 1957.) Providing an electrically-driven controller for controlling the welding voltage and/or, current controller being connected or adapted to be connected with light weight electric control or switching means.

64467. Pending.

JUNE 26.

64468. N. K. Gupta. Improved method of riveting and sealing doors and lids and prestool therefor. Cold setting a semi-tubular rivet by swelling its tubular end, punching a code on its head, fixing a card level to it by a piece of wire inserted in two cross holes provided in its shank in a single operation by a hand press.

64469. Void.

64470. Pending.

64471. R. Staubli, H. H. Staubli and O. Staubli. Improvements in and relating to dobbies. With a pattern card at least one draw knife and draw hooks associated with the knife and controlled for attachment to the knife according to the pattern.

64472. R. Staubli, H. H. Staubli and O. Staubli. Improvements in and relating to dobbies. With a pattern card, at least one draw knife and draw hooks associated with the knife and controlled for attachment to the knife according to the pattern.

64473. Merck & Co., Inc. Process for preparing benzohiadiazine-1, 1-dioxide compounds. (July 25, 1957.) Reacting a nitroaniline disulfonyl chloride with ammonia to form corresponding nitroaniline disulfonamide and reacting the latter with formic acid or its derivative.

64474. Federal Pacific Electric Company. Multi-pole circuit breakers. Each pole having a contact arm and a current-responsive latch and a common handle operating connections to said contact arms.

64475. Void.

64476. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to electrically conductive, slag-forming bodies for use in stud welding and methods of manufacturing such bodies. An electrically conductive, slag-forming body for stud welding characterised in that the oxidic composition contains a certain amount of ZrO_2 and SiO_2 .

64477. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to electric lead-through capacitors comprising a tubular dielectric body. Com-

prising a tubular dielectric body. Comprising a tubular dielectric body having a metallic outer electrode and also a metallic inner electrode, at one extremity the lead-through conductor has a thickened or widened part.

64478. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to semi-conductor devices. Semi-conductive electrode system having an electronic switch, a diode having a variable threshold voltage, and a negative alternating current resistor.

64479. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to a cutting plate or a cutting head for a dry-shaver. [Divided out of No. 62013 and ante-dated to October 15, 1957.] A cutting plate or a cutting head characterised in that it comprises a hinge blade.

64480. Asta-Werke Aktiengesellschaft. New antispasmodic compounds and processes for preparing the same. By heating compound like 6-methyl-2.5 endomethylene- Δ^3 -tetrahydrobenzhydrol with compound of the like dimethyl-amino ethyl chloride-isolating ether formed and preparing desired salt or quaternary ammonium compound therefrom.

64481. Veb Elektronische Rechenmaschinen-Wissenschaftlicher Industriebetrieb Karl-Marx-Stadt. Switching arrangement for gas-discharge tubes. Characterized in that in series with the condenser, a rectifier is connected such that the low resistance direction of the rectifier is from anode to cathode.

JUNE 27.

64482. General American Transportation Corporation. Method of formulating chemical nickel plating bath. Comprising composing chemical nickel plating bath with respect to the desired ingredients and including nickel cations and hypophosphite anions, providing a number of samples of said composed bath each having a given volume, adding to these samples successively increasing numbers of increments of a stabilizer.

64483. General American Transportation Corporation. Chemical nickel plating method. Comprising providing a chemical nickel plating solution of the nickel cation-hypophosphite anion type containing a stabilizing amount of a stabilizer therein.

64484. Deutsche Fibril Gesellschaft Ebers & Dr. Muller m.b.H. Apparatus for the manufacture of molded articles from aqueous pulp. Comprising a wet mold including a female screen mold having a substantially fluid-tight chamber surrounding its outer surface.

64485. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. An improved method for carrying out mass polymerisation. [Addition to No. 57584.] Wherein the apparatus is provided with an evacuation member by means of which after polymerisation, the remaining monomer and polymer formed may be separately and successively withdrawn from the autoclave.

64486. Voltas Limited. Improvements in or relating to Percolation Testing Equipments of the type used in measuring loss of water through cracks in Rock Foundations. Percolation testing equipment comprising a packer assembly, a pipe locking device, a pipe tensioning device and a measuring instrument assembly.

64487. N. V. Onderzoekingsinstituut Research. Process for the manufacture of artificial threads, fibres and like products from viscose. [Addition to No. 56613.] Viscose containing polymer of apoxyalkane and a substituted amine is spun.

64488. Cognate with Patent No. 62827.

64489. Void.

JUNE 30.

64490. Pending.

64491. Thomas Conveyor Co. Inc. Machine for cold rolling helicoid screw conveyor. (July 1, 1957.) Void after publication. From strip material of helicoid screw flights comprising two substantially conical rollers mounted so as to be driven in opposite directions.

64492. Dunlop Rubber Company Limited. Improvements in or relating to breakers, fillers or chafers for a tyre carcass. (July 10, 1957.) Comprising an annular layer formed from a plurality of sinuous convolutions of filamentary material extending parallel to each other in side by side relationship.

64493. Imperial Chemical Industries Limited. New anthraquinonoid dye-stuffs and their application to cellulosic textile materials. (July 22, 1957.) By reacting cyanuric halide with amino anthraquinone and a compound of the class comprising amines, hydroxy or mercapto compounds.

64494. Zavody J. V. Stalina, narodni podnik. Sand blasting apparatus. Comprising a nozzle supplied with compressed air and terminating into a blast space open at one end the blast space being connected by a number of orifices or tubes.

64495. R. Griffi. Shoe for woman. Bending an elastic plate at an angle rearwardly towards the heel of the sole and maintaining it substantially along the same plane.

64496. The Mond Nickel Company Limited. Apparatus for converting metal powder into flakes. (July 1, 1957.) Comprising one or more bearing each composed of rollers lying between races, means for rotating one of the races in each bearing.

64497. Brymbo Steelworks Limited and The Wellman Smith Owen Engineering Corporation Limited. Furnace for treating molten metal. (July 1, 1957.) Comprising a bowl-shaped hearth having side walls, removable roof, means for tilting the furnace about an axis, an aperture in the side walls of the furnace and a tube projecting through the said aperture.

64498. The Solartrow Electronic Group Limited. Improvements in and relating to apparatus for reading symbols. (July 4, 1957.) Void after publication. Equipment including storing means and logical matrix located at control position; signal transmitting channels for coupling each scanning means to the equipment and to transmit signals to the equipment; switching means for any one of the channels operative upon the equipment.

64499. A. De Sy. A process for the production of steel or pig iron and a furnace therefor. Ore is introduced into a bath of iron and carbon alloy contained in electric furnace heated by low frequency induction.

64500. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for oxidizing olefins to aldehydes, ketones and acids. An olefin is contacted in a neutral to acid medium with an oxidizing agent, water and a compound of a noble metal of group VIII of the periodic system in the presence of a redox system.

64501. N. V. Inland. A match and a method and a device for the manufacture thereof. Match splint comprises a plurality of parts at least one covering of synthetic combustible material and at least one core at least partly of combustible material in said covering.

64502. N. V. Inland. A match. Match splint consisting of a small stick which may be hollow or solid manufactured by extrusion, pressing spraying drawing or rolling is formed at least partly from inflammable material or materials.

64503. Ciba Limited. New pyrazoles and derivatives thereof and process for their manufacture. Condensing α -cyano- β -oxo-propionic acid with N-mono-substituted hydrazine and treating the resulting product with hydrolysing agent.

JULY 1.

64504. Void.

64505. C. J. Sawhney. Improvements in or relating to vulcanized fibre products. Comprising heating cellulosic raw material with zinc chloride solution squeezing out excess solution making the product into rope tube twine or sheet as required.

64506. Otis Elevator Company. Elevator control system. Characterized in that an additional circuit is provided for field winding, and field winding is connected to source in parallel with first circuit to cause excitation of field winding to compensate for the residual flux of the generator.

64507. Compagnie De Signaux Et D'Entreprises Electriques. Jointless track circuit with high and accurate shunting effect. Consisting in a bandpass-filter cell in which the inductance element are constituted.

64508. Commissariat A. L'Energie Atomique. Very high vacuum pump combining gettering and condensing means. Comprises, in combination, means for vaporizing a getter substantially in continuous manner and means for condensing at least most of the gases not extracted by the vaporization of the getter.

64509. Whessoe Limited. New or improved methods and means for marking out work. Template being interposed between workpiece and light source so that an enlarged shadow of template is projected on to the surface of workpiece.

64510. Societe Anonyme De Participations Appareillage Gardy. Improvements in or relating to an electric circuit interrupter with a liquid extinguisher. Comprises an external chamber and a cutting chamber which have parts common to one another.

64511. James Halley & Sons Limited. Improvements connected with rotary photogravure printing apparatus. (July 6, 1957.) Printing cylinder supported in pivotally mounted cradle which can be rocked by fluid operated ram means which comprises at least one pair of rams adapted to exert light and heavy printing pressures when energised from common high pressure fluid supply line.

64512. Void.

64513. Sir W. G. Armstrong Whitworth & Company (Engineers) Limited. Improvements in or relating to units producing gas by internal combustion. (July 2, 1957.) Exhaust system leading from the combustion chamber to the machine is so arranged that each pulse of gases is divided into portions which are constrained to travel different distances to reach the machine.

64514. Langley Alloys Limited. Improvements in iron aluminium alloys. (July 2, 1957.) Iron alloy comprising essentially aluminium 4 to 20 per cent. manganese, 18 to 40 per cent. carbon, 0.15 to 2 per cent. up to 4 per cent. columbium up to 3 per cent. silicon and up to 1 per cent. nitrogen.

64515. Ciba Limited. New cyclosteroids and a process for their manufacture. Irradiating 20-oxo-steroid in a solvent.

64516. Cognate with Patent No. 62825.

64517. Ciba Limited. New polypeptides and process for their manufacture. Condensing amino acid molecule or peptide molecule in the form of ester having free amino group with another amino acid molecule or peptide molecule containing protected amino group.

64518. Void.

64519. C. F. Boehringer & Soehne G.m.b.H. Process for the production of dl-threo-1-phenyl-2-nitro-propan-1, 3-diol. (June 5, 1958.) Mixing salts thereof in acidic medium with nitrile removing agents.

64520. Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Difficultly inflammable styrene polymers and their production. [Addition to No. 59769]

Comprises a styrene polymer containing an acetal or an ether of 2:3-dibromopropanol-1.

64521. Kalle & Co. Aktiengesellschaft. Textile finishing process using sodium chlorite as a bleaching agent. Bleaching sodium chlorite liquor contains enzymatic desizing agents active in neutral medium below 60° C. and substances which split of or form acids.

64522. J. D. Hedges and Company Limited Partnership. Method of forming bibulous coatings on metallic anode elements for use in batteries. Comprises the steps of forming a starch containing solution, heating the anode element to a temperature lying within the range bounded by a low temperature.

JULY 2.

64523. Council of Scientific and Industrial Research. A process for the manufacture of Water Resistant Briquettes from the Lignite and the like. Heating lignite in finely powdered form for 2 to 3 hours at temperature varying between 100—400° C. in the absence of air either in a static or fluidized bed and briquetting the resulting lignite.

64524. J. V. Roy. An improved horn for automobiles. Rim of steering wheel provided with channels, one engaging a spring loaded ring which if pressed down touches electric contacts to cause operation of an electric horn, and another engaging an air-filled endless rubber tube having a sound-producing reed so that if the tube is pressed the reed produces sound.

64525. M. A. Chaudary. Improvement in and relating to ginning of cotton. Seed cotton is impregnated with a water soluble oil composition like sulphated castor oil and/or oleic acid by spraying or sprinkling on layer after layer and allowed to stand under roof sometime depending on humidity.

64526. Void.

64527. Commissariat A. L'Energie Atomique. Improvements in vacuum apparatus of the getter type. Characterized in that the feed mechanism for getter metal wire is placed in a gastight casing located on the outside of the vacuum chambers, getter metal wire is vaporized by heating means inside the vacuum chamber.

64528. P. E. Bessiere. Improvements in self-regulating reciprocating piston pumps, in particular for the injection of fuel into internal combustion engines. With means for automatically varying throttling of outflow conduit in response to variations of regulation factor, constituted by a throttle valve mounted in the outflow conduit and operated in response to variations of the regulation factor.

64529. C. G. Munters. Rotor for conditioning an air stream particularly for the purpose of dehumidification, by means of another air stream. At least those portions of the sheets or layers or impregnated with a reinforcing substance imparting to the sheets a higher mechanical strength and the individual fibres increased stiffness and improved with colurent fibres than without the impregnation.

64530. The British Rayon Research Association. Method and apparatus for treating materials using fluidised beds. (August 21, 1956.) [Divided out of No. 59582 and ante-dated to February 7, 1957.] Passing through seal at base of fluidised bed consisting of unfluidised particles of larger size than that in fluidised particles.

64531. Radio Corporation of America. Semi-conductor devices for high speed switching applications. Characterized by a collector electrode in contact with collector region and being responsive to low collector currents to collect charge carriers which are minority carriers with respect to base region.

64532. The British Drug Houses Limited. Improved method for the preparation of 6 β :21-dimethyl-17 γ -pregn-20-yne-3 β :5 α :17 β -triol. (July 18, 1957.) 3 β :17 β -dihydroxy-2 ^{1} -methyl-17 γ -pregn-20yn-5-ene or its 3-acyloxy derivatives is oxidised and the resulting epoxide is reacted with a methyl magnesium halide.

64533. Pending.

64534. Siemens Edison Swan Limited. Improved method of making electrolyte pellets for electric cells or batteries. Comprising mixing powdered electrolyte and gelling agent, damping the mixture to form a paste and then forming pellets by extruding from the paste.

64535. Metropolitan-Vickers Electrical Company Limited. Improvements relating to lever mechanism for transmitting movement from an operating gear to a spring-loaded fluid control valve. (July 12, 1957.) Comprising a pair of pivoted members, one connected to operating gear and the other to valve spindle, a loading spring connected between the two members, the two members having opposing abutments normally separated by spring bias but are brought into contact when closing force is applied to the valve, and a last motion connection between members limiting gap between abutments and absorbing loading force of spring.

64536. A. Saunders and Accurate Tools (Saunders) Limited. Improvements in roller box tools for machine tools. (July 3, 1957.) Comprising a body member, radial slide members carried by the body member, each of the slide members having mounted thereon a roller adjacent the bore.

64537. Ciba Limited. Process for the manufacture of the new 5-alkyl-6 halogen-4-oxo-4, 5-dihydro-pyrazolo-(3, 4-D) pyrimidines, and pharmaceutical preparations containing the same. Exchanging hydroxyl group of 6-hydroxy-5-alkyl-4-oxo-4, 5-dihydro pyrazolo (3, 4-d) pyrimidine for halogen atom.

JULY 3.

64538. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to bearing arrangements for the bottom rolls of textile drafting mechanism. Comprising a rolling bearing mounted in a bearing bracket which is open at the top and is fixed to the machine frame which rolling bearing is sealed at its ends.

64539. Dr. C. Otto & Comp. G.m.b.H. Process for the extraction of pyridine and its homologues from solutions. Treating solutions containing pyridine with phosphoric acid or phosphoric acid containing solution of ammonium phosphate, passing solution of pyridine and phosphoric acid into neutralizing vessel where it is saturated with ammonia and the solution then into a distillation column where it is split into head product containing pyridines and into sump product containing phosphoric acid, the head product processed into pyridine bases.

64540. Godfrey L. Cabot Inc. Improvements in or relating to polyethylene blends. Comprising a thermoplastic component and a free-radical producing cross-linking agent dispersed therein.

JULY 4.

64541. Council of Scientific and Industrial Research. Fabricated bamboo structure for use as springs or beams. Slitting a bamboo, removing nodes placing on top of one another a number of slit bamboo sections and clamping the sections together.

64542. Void.

64543. Void.

64544. Void.

64545. The Textile and Allied Industries Research Organisation. Machine for testing loom healds. Comprising a holder for filamentary rubbing medium adapted for holding the rubbing medium under tension.

64546. Hughes Tool Company. Rotary drill bit. Comprising a body member having a passageway therethrough for flushing fluid, the lower portion of said passageway being of circular cross section.

64547. Hughes Tool Company. Lubricant seal. For earth boring drills, including a shaft extending transversely of a support member and having rotating member mounted thereon.

64548. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Cross-linked alpha-olefine polymers and process for preparing them. Heating together at a temperature between 120 and 200° C. a linear isotactic polymer of α -olefin and a vinyl monomer capable of polymerising with radical mechanism in presence of substance capable of supplying free radicals.

64549. Z. Hrnecir and V. U. N. Motoru. Multicylinder two-stroke diesel engine with cylinders arranged in line. Cams are arranged on the shaft so as to alternate with the corresponding cylinders behind one another.

JULY 5.

64550. Dynamit-Actien-Gesellschaft vormals Alfred Nobel & Co. Improvements in or relating to sound discs from vinylchloride polymers. Pressing the disk-tablets from the powder mix without plasticizing temperature, especially in a temperature between 30° and 120° C.

64551. Organon Laboratories Limited. Process for the preparation of new esters of 19-nor-testosterone. Converting 19-nor-testosterone into an ester of a saturated aliphatic carboxylic acid with 9-15 carbon atoms.

64552. The Distillers Company Limited. Continuous process for the production of yeast. (August 3, 1957.) Growing yeast under conditions of aeration in a liquid nutrient medium in two fermentation vessels—introducing into first vessel, yeast, nutrients and water, containing the growth of yeast and addition of nutrients and water until desired quantity of yeast and medium in this vessel is reached then transferring to the second vessel yeast containing medium at a rate equal to the rate of addition of nutrients.

64553. Weaving Research & Textile Commission Agents Limited. Improvements relating to looms for weaving. (July 25, 1957.) Comprising three weft inserting spear heads each drawing yarn from a stationary weft package which move simultaneously and follow each other through warp shed.

JULY 7.

64554. Council of Scientific and Industrial Research. A bearing. Inner surface of bush is made conical and wherein is provided a correspondingly coned shaft adapted to rotate within said bush.

64555. Void.

64556. Void.

64557. Otis Elevator Company. Overload protective device for electric circuit. Characterized in that overload protective device is also provided with a restraining electromagnet excited to oppose the action of operating electromagnet in operating switching mechanism.

64558. Pending.

64559. National Malleable and Steel Castings Company. Railway car coupler. Curved butt end surface in vertical cross-section has a centre of curvature disposed upwardly of a horizontal plane passing through longitudinal centre line of the shank.

64560. Void.

64561. James Hodgkinson (Salford) Limited. Improvements in or relating to underfeed stokers for boilers, furnaces and similar apparatus. An underfeed stoker in combination with control means which ensures between the stopping of the fuel or stoker feed and the stopping of the fan, and between the starting of the fan and the starting of the fuel feed.

64562. C. Bartell. Improvements in or relating to normally tacky and pressure sensitive adhesive tape. Comprising a paper web bonded with composition comprising bonding particles including elastomeric copolymer containing phenolic or aldehyde resin or formaldehyde resin reactive N-containing

commoner selected from group consisting of unsaturated polymerizable nitriles, acrylamides and vinyl pyridines and phenolic-aldehyde resin, aldehyde resin or formaldehyde resin, the web having coated with pressure-sensitive-adhesive.

64563. C. Bartell and J. R. Weschler. Improvements in or relating to pressure sensitive adhesive tape and method of forming same. Bonding composition having elastomeric polymer containing phenolic-reactive N-containing Co-monomer like acylamides and vinyl pyridines and up to 7 per cent. by weight of water-dispersible heat reactive phenolic aldehyde resin solids.

64564. Veb Leuna-Werka "Walter Ulbricht". Process of manufacture of trialkyl aluminium etherates and the compounds so prepared. Reacting alkyl halides in presence of ether with a mixture of metallic magnesium and aluminium or a mixture of either of these metals and an aluminium magnesium alloy.

64565. National Malleable and Steel Castings Company. Automatic car couplers, for railway vehicles. One wing comprising a pair of spaced pocket portions and a projection disposed therebetween, other wing comprising a pair of projections has a pocket having top, bottom and side walls extending rearwardly of the front-face surface.

64566. Deutsche Gold Und Silber Scheideanstalt Vormals Roessler. A process for the production of 4-aza-phenthiazine derivatives and the derivatives so prepared. (May 28, 1958.) Reacting 4-aza-phenthiazinocarboxylic acid chloride with diethylaminoethoxy ethanol.

64567. Ciba Limited. Phthalocyanines pigments which are resistant to flocculation and process for their manufacture. Treating copper phthalocyanine with formaldehyde or compound yielding formaldehyde with strong acid.

64568. Dr. Beck & Company, G.m.b.H. A process for the production of a thermo-setting liquid synthetic resin composition. One or more acid polyesters having one or more unsaturated and one or more saturated or aromatic components are further esterified with a mixture of mono- and/or multivalent organic hydroxyl compounds to form high-molecular unsaturated polyesters with neutral terminal groups.

64569. E. I. du Pont de Nemours and Company. Improvements in or relating to filaments such as yarns or threads and filamentary structures comprised thereof. Made of substantially continuous individually crimped synthetic linear polymeric filaments.

64570. Lonza Electric and Chemical Works Limited. Process and apparatus for the extrusion of thermoplastic material. Comprising in combination, compressing said material in preheated condition into sheet form.

64571. The Pyrene Company Limited. Improvements relating to devices for producing jets of fluid and to foam-generating apparatus incorporating such devices. Comprising a tube for the supply of the fluid and jet head comprises a chamber having in its inlet end an orifice adapted to form the stream of fluid flowing through the tube into a solid jet.

64572. K. Zangl. Tyre heating presses. In which the arc length of hinged arcuate members are shorter than the arc length of the fixed arcuate member.

64573. Societe Francaise Des Echafaudages "Self Lock". An interlocked elements scaffolding. Uprights provided with sleeves interlocking the feet of successive elements and supported by crossmembers fitted in the notches provided in the sleeves.

64574. Void.

64575. Void.

JULY 8.

64576. Void.

64577. Pending.

64578. J. R. Geigy A.-G. Composition of matter with water-displacing and rust-preventing properties and process for the production thereof. Hydrophobic carrier containing 0.001 to 5 per cent. of mixture of carboxylic acid amido mono-carboxylic acid ($R-CO-N-R_2-COOH$) and equivalent amount of hydroxy-
 $\text{}^1R^2$

alkylated nitrogen base containing lipophilic, substituents where R_1 is lipophilic radical, R_2 -lower alkyl, R_3 a methylene group.

64579. T. J. Smith & Nephew Limited. Improvements in and relating to orthopaedic bandages and the manufacture thereof. (July 13, 1957.) Fabric coated with polymeric substance made from vinyl alkyl ether/maleic anhydride copolymers.

64580. Mendip (Chemical Engineering) Limited. Reinforced plastic. Comprising building up the material from reinforcing material, uncured epoxy resin materials and uncured polyester resin material.

64581. Babcock & Wilcox Limited. Improvements in vapour generating and heating units and an improved method of generating and heating vapour. (July 16, 1957.) Having a furnace chamber wall including tabular heat exchange surfaces of radiant vapour heater.

64582. Imperial Chemical Industries Limited. Improved process for coating metals. (January 30, 1957.) [Divided out of No. 61724 and ante-dated to September 13, 1957.] Immersing metal in an acid coating solution containing a surface active agent and having floating on its surface a layer of inert liquid.

64583. Textile Development and Machinery Limited. Loom. Imparting reciprocating motion to said lay means for achieving warp feed, a shuttle.

64584. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of manufacturing multiple magnetic heads. Portion containing the gaps of various individual magnetic heads is processed as a whole into desired shape and then supplemented with a corresponding member of closure pieces and windings for completion of the individual magnetic circuits.

64585. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs insoluble in water and process for their manufacture. A diazonium compound from an ortho-amino-azo compound is coupled with an arylamide of α β keto-carboxylic acid.

64586. T. Yoshimura. A self-stabilizing belt carrier for positioning a belt automatically. A vertical shaft having ball bearings located at centre of a supporting frame, a supporting arm, cylindrical rollers co-axially fitted to a horizontal intermediate axle mounted for rotative movement.

64587. Sandoz Ltd. Optically active 3-mercapto-phenthiazine derivatives. (June 30, 1958.) Reacting 3-methylmercapto-phenthiazine with (-)-2-(N methyl-piperidyl-2')-1-chloroethane.

64588. Ciba Limited. Process for the manufacture of 21-hemidiglycolates of 21-hydroxysteroids and their salts. Reacting a diglycolic acid with a 3:20-dioxo-21 hydroxy-pregnane compound unsaturated in ring A.

64589. Ciba Limited. New pyrazoles pharmaceutical preparation containing same and a process for their manufacture. Reacting aryl- SO_x -x with N-substituted 3-Y-pyrazole, wherein X and Y radicals are eliminated except for uningroup, -NH contained therein.

64590. Ciba Limited. A new alkyl hydrazine and a process for its manufacture. Hydrazine is reacted with a pentane substituted in the 2-position or a 2-aminopentane is converted into the corresponding hydrazine.

64591. Void.

64592. Ciba Limited. A new alkyl hydrazine and a process for its manufacture. Condensing hydrazine with 2-methyl butanone-(3) and reducing the reaction product.

64593. Ciba Limited. A new alkyl hydrazine solid pharmaceutical preparations containing same, and a process for its manufacture. Condensing hydrazine with cyclopentanone and reducing the reaction product.

64594. Ciba Limited. New halogeno-androstenes, a process for their manufacture and pharmaceutical compositions comprising them. Reducing 9 α -chloro-11 β -hydroxy-17-methyl-testosterone with complex light metal hydride.

64595. Ciba Limited. A new alkyl hydrazine and a process for its manufacture. Hydrazine, its salts or derivatives containing radicals easily split off by hydrolytic agents is reacted with a 2-methyl-pentane which contains in 4-position a reactive functional group and capable of introducing the 2-methyl-pentyl-(4) radical into hydrazine.

64596. Void.

64597. Void.

64598. Ciba Limited. New basically substituted indents and process for their manufacture. Treating 1-aralkyl-2-indenes with a strong acid or base.

64599. Void.

64600. Godfrey L. Cabot, Inc. A new composition of resins and articles comprised thereof. Consists of polyethylene, carbon black and a polymer of a miscible organic peroxide.

64601. SNAM—Societa Nazionale Metanodotti S.p.A. Gas burner. Characterised in that it works through natural mixing of fuel gas with the combustion gas existing in the furnace.

64602. Eutectic Welding Alloys Corporation. Welding rod and method of preparing same. Packing carbide particles in a tubular mould of heat resistant material, heating them to a temperature of the matrix alloy to be added and adding the same to the mould wherein it is melted by the preheated hard particles to cause matrix alloy to wet the particles and fill the mould.

JULY 9.

64603. Alembic Chemical Works Company Limited. Process for the preparation of a bronchodilator designated "vasicinone". Isolating the alkaloid vasicine from the leaves of *Adhatoda Vasica* Nees and oxidising Vasicine with hydrogen peroxide.

64604. Farbenfabriken Bayer Aktiengesellschaft. The production of discharge prints on textile materials. (April 16, 1958.) Using benzazaporphins containing hydrophilic substitutes.

64605. Farbenfabriken Bayer Aktiengesellschaft. Process for printing with vat dyestuffs. (April 14, 1958.) Printing haste contains, as reducing agent, a boranate.

64606. Farbenfabriken Bayer Aktiengesellschaft. Process and compositions for the manufacture of ice colours in textile printing. (May 1, 1958.) Applying diazoamino compounds obtainable from diazotised aminoazo compounds free of sulphuric acid and carboxylic acid groups and a 2-alkylamino-4-or 5-sulphobenzoic acid stabilizer together with ice-colour coupling components.

64607. Farbenfabriken Bayer Aktiengesellschaft. Process for the production of azo dyestuffs of the phthalocyanine series. (March 27, 1958.) Reacting phthalocyanine derivatives which are substituted by 1-8 acetoacetic acid amide radicals *via* methylene bridges with diaza compounds.

64608. Elektrokemisk A/S. Improvements relating to the electrical connection of a single-phase electrode furnace to a three-phase power system. In which the furnace is connected in series with a series capacitance across one phase of the supply.

64609. Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon. Mechanical loom with pneumatic drive. Characterised by control devices which are actuable by the shuttle on its path and designed to control the start of each cycle of the pneumatically driven batten.

64610. Alweg-Forschung Gesellschaft Mit Beschränkter Haftung. Improvements in and relating to points for monorail railways. Directly between two

pairs of switches are arranged two stationary supporting structure sections with a rotatable supporting section in between the former.

64611. James Halley & Sons Limited. An improved air heating device for incorporation in printing apparatus. (July 16, 1957.) Comprising a tubular body, a longitudinal partition provided with said body to furnish a longitudinally extending plenum therein.

64612. Pirelli Società Per Azioni. Improvements in or relating to telephone cables with balanced circuits for carrier frequencies. (April 28, 1958.) Comprising any number of star-type quads and/or pairs characterized by the fact that an even number of quads contained in the cable are provided with an electro-magnetic screen wrapper externally with an insulating tape and unscreened quads are located on opposite sides of the screen quads.

64613. H. Fraser and W. G. Cantlay. Improved means for connecting overhead high tension electrical cables to the insulators of transmission towers. Suspension overhead cable consist of upper part and lower part with clamping means and the parts having co-operating means whereby the lower part supports upper part when said parts are in their assembled portion and locking means. The two parts are retained normally in their assembled portion.

64614. Pharmazeutische Fabrik Montavit Gesellschaft mit beschränkter Haftung. Process for the manufacture of solutions for use in intramuscular injections. Using natural or synthetic volatile oil entirely free from terpene and sesquiterpene hydrocarbons.

64615. Pharmazeutische Fabrik Montavit Gesellschaft mit beschränkter Haftung. Process for the manufacture of stable solutions for use in inhalations. Comprising volatile oils, 2, 2-dialkyl-4-hydroxy-methyl-1, 3-dioxolane and glycerine.

64616. Goetzewerke Friedrich Goetze Aktiengesellschaft. Method of providing a seal between friction surfaces of relatively moving mechanical parts, especially pistons and cylinders. Comprising two packing rings which are fitted each within an annular cavity formed in one of the machine parts with webs directed towards one another to enclose a sealing chamber.

64617. A. H. Jamal. An attachment for a tea pot, coffee pot and like vessel. A tubular attachment having or provided with a flexible element at one end which can be slipped over the spout of the vessel, the other end having a pouring nozzle and a strainer.

64618. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of an N-glycoside of 5-fluorouracil. [Divided out of No. 61436 and ante-dated to August 12, 1957.] Enzymatically transferring 2-deoxyribose from a 2-deoxyriboside to 5-fluorouracil by means of streptococcus fecalis (ATCC 8043).

JULY 10.

64619. S. Bose. An improved javelin for athletic purposes. A longitudinal tubular or cylindrical body of aluminium, the front portion fitted with hollow cone-shaped point of iron or iron alloy, the rear portion tapered and cord grip provided at the centre of gravity of the javelin.

64620. N. V. De Bataafsche Petroleum Maatschappij. Water-in-oil lubricant and hydraulic fluid. Comprising 20 to 45 per cent. of water and 80 to 55 per cent. of oil consisting of 0.5-12 per cent. by weight each of (i) oil-soluble basic salts of aromatic carboxylic acid and (ii) organic sulphonic acid and polyvalent metal of group II. of Periodic Table and (iii) polychlorohydrocarbon hydrocarbon thiocarbonate.

64621. Void.

64622. Void.

64623. Novo Terapeutisk Laboratorium A/S. Process for producing a quick-acting insulin preparation. Dissolving pig insulin in aqueous injectable medium of 7-8 pH value.

64624. Pending.

JULY 11.

64625. Societe Des Usines Chimiques Rhone-Poulenc. New esters of 2-piperidylphenylmethanols and processes for their production. [Addition to No. 61758.] A substituted 2-piperidylphenylmethanol (Form B) or an acid addition salt thereof is esterified.

64626. P. P. Parera. New and useful improvement in hydrostatic suspension systems for magnetic needles. (May 19, 1958.) Comprising an outer housing, essentially spherically shaped in the inner side and made of a translucent material, and an inner body of magnetic arrangement formed hollow sphere which is held within the housing in concentric relation by means of an intermediate liquid mass operatively arranged.

64627. Societe Des Usines Chimiques Rhone-Poulenc. New ethers of 2-piperidyl phenylmethanols and processes for their production. Comprises etherifying a 2-piperidyl phenyl-methanol.

64628. Imperial Chemical Industries Limited. Polymerisation process for ethylenically unsaturated compounds. (July 31, 1957.) As catalyst there is used polyaza-poly-ene containing more than four nitrogen atoms in azene chain.

64629. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Method of polymerizing unsaturated hydrocarbons. In presence of catalyst obtained by contacting alkyl beryllium compound with solid compound of transition metal of groups IVa, Va or VIa of periodic table.

64630. Trojan Limited and Heat Exchangers Limited. A new or improved unit for supplying hot air for heating or drying. (July 12, 1957.) Comprising a combustion chamber for the provision of hot combustion gases, means for supplying a variable amount of fuel to the combustion chamber, a fan or blower for producing a stream of air.

64631. K. Abildgaard. Method for the production of 2-substituted 3-methyl-2, 3-dihydroxyhezenes-(5). (July 12, 1957.) Reacting 2-phenylacetoin with 2-propenylmagnesium chloride and decomposing the grignard-compound thus formed.

64632. Mentmore Manufacturing Co. Limited. Improvements in or relating to fountain pens. (July 12, 1957.) Having the portion of the reservoir within the barrel filled with fabric formed from fibres which are incapable of absorbing ink.

64633. Pending.

64634. Asta-Werke. Aktiengesellschaft Chemische Fabrik. Process of preparing new ester-amides of phosphoric and thiophosphoric acid and the new products obtainable thereby. Treating N, N-bis-(β -chloroethyl)-phosphoric acid amide dichloride with triethylamine.

64635. Prithwis Chandra Biswas. Union for deep tubewell pumps. A single cast union having dished underside forming a recess whose wall is internally threaded for casing pipe to be screwed thereto from below a flange on top of which is integrally formed a base to which is secured pump standard or head stock and a threaded central bore to receive down pipe screwed thereto from below.

64636. Shyam Lal Banerjee. Process of applying a coating to metal ware comprising cleansing the steel ware by sand blasting or acid treatment, dipping the same in a concentrated aqueous solution of cobalt sulphate, and then covering with a paste or slurry of a compound pigment.

JULY 12.

64637. Void.

64638. N. V. Philips' Gloeilampenfabrieken. 4,6-dichloro-1, 3, 5-triazines [Divided out of No. 60206 and ante-dated to April 15, 1957.] Cyanuric acid chloride is reacted with a compound of the formula HXR, wherein X designates O-or-S- and R aliphatic or alicyclic hydrocarbon residue.

64639. Swissco Sales Corporation. Improvements in or relating to expandable bracelets for wrist watches. [Addition to No. 62912.] Bracelet is made of link units characterised in that each unit has two sleeves integral with each other.

64640. Void.

64641. Goodyear Aircraft Corporation. Improvements in method and apparatus for spraying a mixture of fibres and resin. Includes means for introducing a blanket of air into the passageway and in which the air is caused to flow along the inner surfaces of the passageway so as to prevent the depositing of fibres and bonding material.

JULY 14

64642. Void.

64643. Void.

64644. Societe Normande De Matieres Plastiques. Improvements in method of polymerizing ethylene. In presence of catalyst reaction product of metal alkyl and metal halide modified by silicone oil.

64645. Societe Genevoise D'Instruments De Physique. Memoir member for a repeater device. Memoir is removable, a locking device ensuring its correct position with respect to the other members of the repeater device.

64646. Pending.

64647. Imperial Chemical Industries Limited. Improvements relating to Electrodes and Electrode assemblies. (July 17, 1957.) Consisting of titanium or zirconium part of the surface of which is covered by an element having a more positive potential than titanium or zirconium.

64648. Imperial Chemical Industries Limited. Apparatus for flattening filled sacks. (August 2, 1957.) A vibratory table to support sacks having a direction of vibration inclined at less than 90° to plane of table in direction of travel of sacks with a vertical component and a horizontal component for conveying sacks.

64649. Merck & Co., Inc. Steroid Purification. (September 21, 1957.) Impure steroid 21-dihydrogen phosphate solution is contacted with a substance which forms an insoluble product with the inorganic phosphate ion and the steroid is separated.

64650. Merck & Co., Inc. Sulfonamide compounds. (August 6, 1957.) A disulphonamido aniline compound is heated with urea and, if desired, the nitro derivative is converted to the amino-derivative.

64651. Boots Pure Drug Company Limited. New anthelmintic compositions. Comprising double salt of piperazine dihydrochloride and ammonium chloride together with a carrier.

64652. M. B. Kirkpatrick. Earth boring or mining apparatus. Comprising a mobile support having two bore forming assemblies adapted to be selectively driven and means reacting from the anchored bore forming assembly for drawing the support and the other bore forming assembly in the direction of advance bore.

64653. XZIT (G.B.) Limited. Cleaning treatment for locomotive fire-box and smoke tubes and compositions therefor. (July 15, 1957.) Comprises (1) one or more salts of one or more metals capable of acting as a catalyst to reduce temperature of combustion of carbon and which volatilise at red heat temperature, (2) one or more alkali metal chlorides, (3) ammonium sulphate and/or ammonium chloride.

64654. Institut Francais Du Petrole, Des Carburants et Lubrifiants. Improvements in or relating to compression ignition engines. (May 14, 1958.) First feed of two successive feeds of the same fuel in each cylinder in each cycle being effected into residual gases from the end of exhaust stage of preceding cycle and constituting from 20—50 per cent. of the quantity of fuel supplied per cycle.

64655. E. I. du Pont de Nemours and Company. Stable package of polyamide yarn and its preparation. The yarn has uniform physical and mechanical properties throughout the package and a high degree of dimensional stability, permitting production of fabrics essentially free of streaks or other fabric defects.

64656. Food Machinery and Chemical Corporation. Pesticidal compositions containing of Phosphorus Esters. (July 15, 1957.) The composition comprises a bisdithiophosphate and a carrier the active compound being present to the extent of 0.0005 to 50 per cent. of the composition.

JULY 15.

64657. Chas. Pfizer & Co. Inc. Pharmaceutical compositions. [Divided out of No. 60886 and ante-dated to June 25, 1957.] Comprising 2-(2'-imidazolylmercapto)-pyridine-N-oxide or 2-(2'-tetrahydropyrimidylmercapto) pyridine N-oxide or analogous quinoline N-Oxides together with pharmaceutical carrier.

64558. Mallinckrodt Chemical Works. Method of preparing anhydrous ferrous fumarate. Mixing a water-soluble ferrous salt and a water-soluble salt of fumaric acid in an aqueous medium at a temperature above approximately 70° C.

64659. Casablancas High Draft Company Limited. Improvements in or relating to textile fibre drafting apparatus. (October 9, 1957.) The arm is freely pivotable on its rear mounting and floating spring influenced abutment device or packing piece is arranged to bear in the working portion of the arm.

64660. Westinghouse Brake & Signal Company Limited. Improvements relating to check valves. (August 7, 1957.) Comprising a valve chamber having at opposite ends two ports. The chamber is in communication with outlet passage within which is disposed a choke.

64661. Amchem Products Inc. (formerly known as American Chemical Paint Company). Improvements in or relating to compositions for use in baths for the etching of aluminium and its alloys. (December 5, 1957.) An etchant bath for aluminium comprising from 80 per cent. to 96 per cent. by dry weight of the hydroxide(s) of the alkali metal(s) sodium or potassium from 3 per cent. to 10 per cent. by dry weight of tartaric acid and from 0.025 per cent. to 2.5 per cent. by dry weight of one or more.

64662. General Steel Castings Corporation. Improvements in or relating to railway vehicle trucks. Frame supporting wheel and axle assemblies has a pair of transversely-spaced upwardly-facing horizontal bearing surfaces rigid therewith, a bolster having a downwardly-facing centre plate in pivotal load-supporting, engagement with upwardly-facing plate.

64663. Imperial Chemical Industries Limited. Process for the manufacture of water-soluble colouring matters and their use. (August 7, 1957.) Reacting together triazine containing more than one halogen atom attached to the carbon atoms thereof, a negatively substituted hydroxy aryl compound or a mercaptoaryl compound and a compound which is coloured and contains one or more amino or mono substituted amino groups.

64664. Robert Bosch G.m.b.H. Improvements in or relating to commutators. Having metallic tube whose ends are outwardly flanged to press clamping rings towards one another to co-operate with dovetailed portions on the segments, an intermediate space between these portions and the tube containing a hardenable insulating material.

64665. Void.

64666. The Yale and Towne Manufacturing Company. Hydraulic lifting system in load lifting assemblies such as industrial trucks. A reservoir for receiving operating fluid having inlet pipe for conducting fluid into the reservoir and outlet pipe for conducting from the reservoir.

64667. W. F. Gerdtz and H. R. Gerdtz. Improvements in or relating to valves for automatically regulating the flow of liquids and vapours, suitable

particularly for use as steam traps. Comprising two or more pressure-relieving stages through which liquid and vapour flow in sequence, each of said stages consist of a passage partly closeable by a regulating body.

64668. W. F. Gerdtz and H. R. Gerdtz. Improvements in or relating to temperature-responsive devices. (July 9, 1958.) Plurality of bimetallic strips for temperature dependent control of a regulating and shut-off element are arranged in pairs concentrically.

64669. Siemens Edison Swan Limited. Improvements in and relating to fluorescent electric lighting installations. (August 9, 1957.) Comprising a supporting structure or so-called gut adapted to be secured to or suspended from a ceiling.

JULY 16.

64670. G. Dirks. Apparatus for checking the accuracy of reproduction of stored digital data signals. (August 6, 1957.) Including transducing means generating electrical signals corresponding to signals recorded means to compare the electric signals and to generate error signal, and counting means to count electrical signals corresponding to each data item and to generate error signal in response to data item count different from predetermined count.

64671. Allis-Chalmers Manufacturing Company. Process for production of hard burned agglomerates of fine magnetite ore. Finely divided ore is initially formed into moist green pellets and subsequently heat treated.

64672. Babcock & Wilcox Limited. Improvements in tubulous vapour generating and heating units. (July 23, 1957.) Having a casing supported by suspended wall tubes and enclosing a space which includes a furnace chamber having fluid-cooled boundaries, a section of the fluid cooled part of the furnace chamber acting as a superheater.

64673. Gebr. Stork & Co.'s Apparatenfabrick N. V. A method of rinsing yarns and fabrics in the form of skeins. Yarns and fabrics in the form of a skein passed over at least one reel and by means therethrough a bath of rinsing liquid located beneath said reels.

64674. Siemens & Halske Aktiengesellschaft. Improvements in or relating to receiving combiners for teleprinter machines. (July 24, 1957.) A setting member for adjusting angular position in which selecting cam discs start and are stopped, said member supporting a lever used to lock cam shaft.

64675. Afco Private Limited. Improvements in or relating to reinforced joints made of timber plywood prestwood boards, metal sheets, cement asbestos sheets and like building materials. Joint strengthened by a fillet of a reinforcing material impregnated with a binder, the fillet being formed in situ over the joint.

64676. Void.

64677. Void.

JULY 17.

64678. Pending.

64679. Fichtel & Sachs A.G. Elastic clutch plate, more particularly for motor vehicles. Parts fixed to a supporting member elastically deform the supporting member under the action of clutching pressure.

64680. Void.

64681. Ciba Limited. New polypeptides and a process for their manufacture. Linking together aminoacids L-glutamic acid, L-histidine, L-phenylalanin, L- α (lower aminoalkyl)- α -aminoacetic acid, L-tryptophane and glycine.

64682. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of bis-isothiuronium compounds. Reacting thiourea wherein one nitrogen carries alkyl or alkenyl radical with 1, 1-bis (w-haloalkyl)-urea.

64683. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of a disubstituted amine. Treating β, β -imino-dipropionate with HCl in presence of lower alkanol reducing benzolated product and then debenzolating and chlorinating the same.

64684. Strong Cobb and Company, Inc. Production of timed release medicaments. Metal soap having embedded therapeutic agent in form of granules.

64685. Void.

JULY 18.

64686. E. G. Beard. Improvements in or relating to projection screens. Comprising reflecting surface formed into sets of grooves, the grooves in each individual set being concentric about a centre outside the area of the screen, the reflecting surface being coated with a transparent lacquer.

64687. The Chairman, Indian Tea Association. Improvements in and modifications of tea rolling machines. [Addition to No. 60857.] Wherein the rolling surface of the plate-like member is unbroken and jointless, the plate-like member being hingeless throughout its length.

64688. Imperial Chemical Industries Limited. Process of manufacture of guanidine compounds and pharmaceutical compositions thereof. (August 2, 1957.) Reacting an aminoguanidine with a carboxyl compound.

64689. Imperial Chemical Industries Limited. Improved polymer compositions. (August 7, 1957.) Comprising a mixture of isotactic polypropylene and a rubbery polymer of isobutylene wherein the weight of the latter is less than that of the former.

64690. Void.

64691. Organon Laboratories Limited. New compounds of the oestrane series and process for the preparation thereof. Wherein hydrochloric acid is added to the double bond of Δ^4 -oestrane compound and the compound obtained is treated with a basically reacting dehydro-halogenating agent.

64692. Organon Laboratories Limited. Process for the preparation of suspensions of drugs destined for injection. Compressing solid drug at 2,500 kgs/cm.² pressure and subdividing product into particles of 250 microns size for suspension in injectible medium.

64693. Takeda Pharmaceutical Industries Limited. Transformation of steroids by microorganisms. Bringing steroid compound belonging to androstane series or pregnane series into contact with redox-enzyme of micro-organism belonging to genus Pseudomonas or genus Serratia.

64694. Bristol Laboratories Inc. Process for preparing derivatives of tetra-

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cycline. Reacting TC—C—NH—CH₂—B with hydrogen replacing reagent when Tc is tetracyclin except carboxamido group B is primary or secondary amino groups.

JULY 19.

64695. Svenska Aktiebolaget Bromsregulator. Improvements in or relating to brake apparatus particularly for railway vehicles. Link giving lower leverage is connected to brake lever with lost motion taken up by a movable abutment to bring said link into and other link out of action.

64696. Ciba Limited. New ethers of N-methylolamino-1:3:5-triazines containing epoxide groups and a process for their manufacture. Reacting N-methylol-amino-1:5:5-triazine or ether thereof with halogenohydrin derived from polyhydric alcohol and converting reaction product in epoxy compound.

64697. Ciba Limited. Process for the preparation of new copolymers of acrylic acid esters and method of using them as pigment binding agents. Copolymerisation product of not less than 25 per cent. of ester CH₂=CR—COOR, 0.2 to 10 per cent. of CH₂=CR—COOH a remainder of CH₂=CR—COOR, when

R is hydrogen or alkyl group R, is residue of cyclic alcohol, R₂ is alkyl group interrupted by ether oxygen.

64698. The English Electric Company Limited. Improvements in and relating to magnetic amplifier controlled systems. (August 6, 1957.) Wherein the power supplied to a load from a two or more phase A.C. supply is controlled by magnetic amplifier units connected one in each phase of said supply and is rectified by a rectifier system connected between magnetic amplifier units and the load.

64699. Imperial Chemical Industries Limited. Improvements in or relating to springs. (July 26, 1957.) Void after publication. Reinforced with filamentary material, at least part of the reinforcing filaments being disposed in a substantially helical pattern about the axis of the plastic material.

64700. Imperial Chemical Industries Limited. A method of improving the corrosion resistance of titanium or titanium base alloys. (July 26, 1957.) Having anodic polarisation properties comparable to those of titanium in contact with liquid medium corrosive thereto.

64701. The Yale & Towne Manufacturing Company. Improvements in or relating to locks. (July 30, 1957.) Gated security levers operated by servant key for locking and the master key operates on another set of levers to impart a releasing effect.

64702. Babcock & Wilcox Limited. An improved method of pulverising solid material and improvements in pulverising mills. (August 1, 1957.) Which includes feeding the material to the mill, including a rotary casing containing a charge of free pulverising elements.

JULY 21.

64703. Void.

64704. Void.

64705. Chas. Pfizer & Co. Inc. Pharmaceutical compositions containing an oleandomycin ester. Comprising oleandomycin ester and pharmaceutically acceptable carrier.

64706. Chas. Pfizer & Co., Inc. Preparation of acyloxyated derivatives of 1, 2, 3, 4-tetrahydrophenazine N, N'-dioxides and 2, 3-dimethylquinoxaline N, N'-dioxides. By reacting dibromo-tetrahydrophen-azene-N,N'-dioxide or Bis (bromomethyl) quinoxaline-N,N'-dioxide with tertiary amine and alkanolic acid.

64707. Westinghouse Brake & Signal Company Limited. Distributor valve means for a vacuum braking system. (July 26, 1957.) Wherein a quick service valve is provided which is adapted to control flow of air from the atmosphere to the train pipe so that upon reduction of the train pipe vacuum braking action is effected.

64708. Merck & Co. Inc. Production of diamine ether of 5-hydroxymethyl furfural. (December 23, 1957.) Oximinating ether of 5-hydroxymethyl furfural and reducing the dioxide with hydrogen and hydrogenation catalyst the presence of ammonia.

64709. Imperial Chemical Industries Limited. New compositions of matter. (August 7, 1957.) Comprising a compound containing at least one 4:6, dihalogeno-5-triazine group and a buffer mixture of free acid and a metal salt of arylamine sulphonic acid.

64710. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica. Thermoplastic compositions for the production of phonograph records and method of preparing records. Comprising a crystalline polymer of an olefin in admixture with a stabiliser therefor.

64711. Parks-Cramer Company. Method of and apparatus for sweeping lint, fly and the like from between and beneath a plurality of textile machines. Comprising an upper and a lower horizontal pipe having bores along the walls conduit means communicating with each said pipe, a source of compressed air and means transmitting rotary motion to the said pipe.

64712. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. Improvements in or relating to diaphragm pumps. Two spaced stops adjustably mounted on member movable with diaphragm which actuate the distributor device from one of its positions to the other position at respective ends of travel of the member.

64713. Union Carbide Corporation. 3-isopropylphenyl N-methylcarbamate and insecticidal compositions containing the same. Reacting 3-isopropylphenol with methylisocyanate.

64714. S. Favaro. Improvements in or relating to apparatus for driving gramophone records. (July 29, 1957.) Having locating member projecting into spindle hole in record and first and second driving wheels driven by motor the first wheel engaging a record and the second wheel engaging a record of bigger size, the records of the two sizes being driven at two different speeds

64715. Cognate with Patent No. 64503.

64716. Council of Scientific and Industrial Research. Improvements in or relating to the manufacture of fireclay refractories. Moulding or ramming a mixture of fireclay and grog made by calcining fireclay to which a mineraliser like Cr_2O_3 is added, and firing the bricks so made.

JULY 22.

64717. Glaxo Laboratories Limited. Improvements in or relating to pharmaceutical compositions. (July 31, 1957.) Comprising 3:5-dibromo—or 3:5-diiodo-4-(4'-hydroxyphenoxy) phenylacetic acid and a solid carrier.

64718. Dunlop Rubber Company Limited. Improvements in rubber hose. (September 7, 1957.) Comprising a lining of a polymer of a mono-olefine or a copolymer of mixed mono-olefines bonded to the outer layer.

64719. J. R. Geigy A. G. Process for the production of organically soluble stilbyl triazole compounds. [Addition to No. 52896.] 2-(stilbyl-4'')-(acena-phtheno-4', 5':4.5)-1, 2, 3-triazole-2'', -2''' or -4''' sulphonic acids or their alkali metal salts are reacted with phosphorus halides and the product converted into amides, esters or sulphones.

64720. The General Electric Company Limited. Improvements in or relating to metal vapour electric arc converters. (July 29, 1957.) Comprising a pool container defining an annular channel provided with radial baffles interrupting the surface of the metal whereby to prevent swilling of the pool.

64721. Stamicarbon N. V. Process and apparatus for preparing loose solid particled materials. Comprises separating the initial material with at least two different grade fractions in one of which two fractions the proportions of the particular constituent or constituents have a mean value less than in the other hand at this lowest are below the max, conveying the one fraction the delivering point.

64722. D. Napier & Son Limited. Control mechanism for aircraft power plants comprising a gas turbine engine driving a propeller (July 26, 1957.) Comprising a gas turbine engine having a turbine mechanically coupled to a heavy inertia propeller including a fuel pump system, an adjustable metering orifice controlled by restrictor element, a hydraulic speed pressure signal generator.

64723. D. Napier & Son Limited. Internal combustion turbine units. (July 26, 1957.) [Addition to No. 55167.] Each combustion chamber comprises a rigid tubular stress taking wall adapted to be rigidly secured at one end to the compressor casing and fixed at the other end to the common turbine inlet structure.

64724. Pending.

64725. Losinger & Co. A. G. Method and apparatus for pretensioning the reinforcing of a prestressed concrete structure. In which reinforcing wires are conclusively wedged between a conical funnel and a conical wedge of an anchoring head.

64726. Losinger & Co., A. G. Improvements in or relating to hydraulic jacks for pretensioning reinforcing wires of prestressed concrete structures. Characterized in that it comprises a bearing supported by the ends, which is remote from the end portion arranged to be connected with the anchoring head.

64727. A. H. Jamal. Improvements in or relating to portable electric immersion heaters. Characterised in that it has an outer metal case and heating elements, which are straight and flat.

64728. Void.

64729. Ciba Limited. New polymerisation process. Polymerizing a compound containing at least one polymerizable double bond and at least one tertiary amino groups, in presence of acetylene.

64730. Ciba Limited. New dioxazine dyestuffs and process for their manufacture. Treating isopropoxy benzoylamino-aminobenzene with non-sulfonating condensing agent.

64731. Nihon Spindle Seizo Kabushiki Kaisha. A transferable cleaning apparatus for a textile machinery. An air duct placed a textile machinery, a carriage adapted to move along said air duct and at least an inflatable bay-like member secured to said carriage.

JULY 23.

64732. Dr. Karl Thomae Gesellschaft mit beschränkter Haftung. Process for the production of 4-oxo-2-(halogen alkyl)-2, 3-dihydro [Benzo-1, 3-oxazines]. Wherein compounds having "alkylane" residue with 3-6 c-atoms are prepared by method of main patent.

64733. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improved rope or cord and a method of manufacturing the same. A sheath of isolactic polypropylene shrunk onto a core of natural fibres.

64734. Sandoz Ltd. Improvements in or relating to organic compounds. (July 24, 1957.) Condensing N-alkyl-piperidone with a carboxylic acid derivative.

64735. Shaw Regent Limited. Improvements in and relating to writing instruments. (July 26, 1957.) The plunger of the instrument is provided with a latch member which releasably locks the plunger in its depressed position and the writing unit in its writing position.

64736. Adequate Weighers Limited. Intermittent weighing and weight recording apparatus. (July 23, 1957.) Comprising frame, weigher system including movable pendulum, means for locking pendulum, recorder, driving means for latter including and driven shaft through variable change speed gear controlled by pendulum and clutch, control means for locking pendulum and clutching and unclutching driven shaft to and from recorder in fixed timed succession and means actuated by movement of load to actuate the control means.

64737. Standard Telephones and Cables Limited. Improvements in manufacture of insulated twisted conductor pairs. (August 19, 1957.) Comprising the steps of winding the insulated conductors on a bobbin in a parallel arrangement.

64738. Takeda Pharmaceutical Industries, Limited. Derivatives of thiamine and production of the same. Reacting thiamine or related compounds with reagent to convert -SH into -S-S. $(CH_2)_n-R^1$ group where R^1 is tetrahydrofuryl or -pyranyl group, n is positive integral.

64739. Novo Terapeutisk Laboratorium A/S. Process for producing insulin crystal suspensions having a protracted effect. Wherein a suspension of insulin crystals is produced in an aqueous medium with such a degree of acidity to have a pH value of about 7 and a metal content of at most 5-6 metal atoms per unit cell.

64740. J. C. Bajaj. Device for holding keys. Comprising plastic core having one end spherical to be fitted into a socket fitted at the other end.

there being a projection on the spherical portion and a corresponding slit on the wall of the socket.

64741. J. C. Bajaj. Combined shoe horn and aerated water bottle capsule opener. 8-shaped steel blank, one end of which being slightly carried to operate as shoe horn and the other end of which having a D-shaped hole or operating as aerated water bottle capsule opener.

64742. Plastic Corporation. An improved key ring. Made of plastic material of desired section and thickness and bent to the required shape the free ends thereof being coupled to each other through a coupling member.

JULY 24.

64743. Diapulse Manufacturing Corp. of America. Improvements in and relating to ultra short wave atherapeutic apparatus. Comprising a source of high frequency oscillations a radio-frequency power amplifier driven by high frequency oscillations and pulse producing means electrically connected to power amplifier.

64744. T. Ning. Improvements in or relating to electric dry batteries. Having a flexible, waterproof insulating casing of sheet material having apertures therein appropriately disposed to expose at least a part of the electrodes of the battery and at least one current conducting terminal plate being provided on the outside of casing.

64745. Stamicarbon N. V. A process for the production of aromatic hydrocarbons with reduced thiophene content. Passing sulphuric acid and hydrocarbon liquid continuously and in countercurrent through a column filled with packing bodies the hydrocarbon liquid passing upwardly through the column and pulsating the liquids during their passage through the column.

64746. American Cyanamid Company. Process of preparing N-substituted anilides. A substituted alkylene diamine is reacted with an acylating agent.

64747. American Cyanamid Company. Process of preparing N-substituted anilides. An N-substituted anilide is reacted with an alkylating agent.

64748. Ciba Limited. Process for the manufacture of pregnadiene compounds. $\Delta^{1:4-16\alpha}$ -methyl-9 α -fluoro-pregnadiene-11 β :17 α :21-triol-3:20-dione in pyridine is reacted with excess trimethylacetic acid chloride.

64749. Ciba Limited. New halogen pregnenes and process for their manufacture. Treating pregnane compound with hydrochloric acid.

64750. Cognate with Patent No. 64749.

64751. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Improved process for the preparation of high molecular weight copolymers of olefins. [Addition to No. 59172.] Employing catalyst produced by contacting a solid transition metal compound of group IV, V, or VI with a metal alkyl compound of group II or III of the periodic table.

JULY 25.

64752. Void.

64753. Pending.

64754. Hawley Products Company. Carton blanks and cartons and process for making carton blanks. Comprising forming a continuous thick felted fibrous sheet from an aqueous slurry of fibres on a continuous felt forming machine.

64755. Pending.

64756. Imperial Chemical Industries Limited. Manufacture of hyponitrous esters useful as polymerisation catalysis. (August 7, 1957.) [Addition to No. 60339.] Reacting a hyponitrite of a metal with a halide having the general formula $X-CR'R''-OR$ where X is a halogen, and R, R' and R'' are the same or different organic radicals, the carbon atom of the formula being linked directly to carbon atoms of the radicals R' and R''.

64757. Imperial Chemical Industries Limited. Polymerisation of ethylenically unsaturated compounds. (August 7, 1957.) [Addition to No. 60378.] Using as catalyst there is used at least one organic hyponitrite wherein both the organic residues contain one ether on the α -carbon atoms and said α -carbon atoms are attached only to carbon atoms.

64758. Pending.

64759. Toyo Koatsu Industries, Incorporated. Urea synthesis using excess ammonia. Removing gases from urea melt obtained by reacting 1 mol of CO_2 and 4-5 mols of NH_3 , distilling the melt dehumidifying distillate by rectification and washing with ag. ammonium carbonate solution.

64760. The Carborundum Company. Silicon Carbide bodies and a method of producing them. A silicon carbide body of high density which is composed of silicon carbide with controlled minor amounts of other materials.

64761. The Carborundum Company. A process for making articles of dense silicon carbide. Mixing granular silicon carbide, a carbonizable material and a carbonaceous material together, the mixture is shaped and fired in the presence of more than the stoichiometric amount of silicon.

64762. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Colouring composition for foodstuff. Comprises in dissolving a fatty acid containing from 16 to 22 carbon atoms in a vegetable oil and dispersing a carotenoid dyestuff in the solution.

64763. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs soluble in water and process for their manufacture. Corresponding to the general formula $\text{R}_2\text{-N=N-R}_1\text{-CPO(OH)}_2$ in which R_1 represents a radical of the benzene, naphthalene or diphenyl series, R_2 represents the radical of a phenolics or enolic comping component containing a hydroxy group in a position adjacent to the azo-group.

JULY 26.

64764. The Carborundum Company. Carbide-bonded Graphite Bodies and method of making the same. Having discrete graphite masses embedded in homogenous matrix of stable carbide.

64765. N. V. De Bataafsche Petroleum Maatschappij. Apparatus for the separation of liquid particles from a gas. Comprising a riser and a superposed catching cap provided with liquid draining channels.

64766. N. V. De Bataafsche Petroleum Maatschappij. Improvements in or relating to a process and apparatus for the catalytic cracking of hydrocarbon oils. (July 30, 1957.) [Addition to No. 53847.] Wherein upper level of catalyst bed in stripping zone is maintained above upper ends of risers.

64767. Imperial Chemical Industries Limited. Improvements in or relating to the manufacture of resilient rollers. (August 9, 1957.) Coating central shaft with reaction product of linear polyester and polyisocyanate.

64768. Pending.

64769. Studiengesellschaft Kohle m.b.H. A process for the production of polyethylene with narrow distribution of the molecular weight and catalysts for this process. Polymerising ethylene in presence of a catalyst comprising a mixture of titanium trichloride with at least one such compound of tetravalent titanium and one or more organic aluminium compounds as is soluble in hydrocarbons and contains at least one alkyl group bonded to aluminium.

JULY 29.

64770. Carona Sahu Co. Improved method of fixing upper band or bands to the sole portion of footwear. Forming silts in leather insole for receiving ends of upper bands which ends are thereafter sandwiched between the insole and outer soles, complementary faces of insole and outer sole and sandwiched ends of bands applied with adhesive, kept under compression press and after removing from there, allowed to cure.

64771. Parijat Paints Manufacturing Company. Improved powder distemper and method of its manufacture. Preparing separately one mixture of coloured powder distemper soda ash soap and castor emulsion ether of casein and soapstone mixing the two before use.

64772. Void.

64773. Imperial Chemical Industries Limited. Improvements in or relating to the production of synthetic elastomers. (August 8, 1957.) [Addition to No. 63727.] By carrying out between the mixing stage and the curing stage of the process disclosed in patent application No. 63727, a chilling step and a fabrication step.

64774. Imperial Chemical Industries Limited. Improvements in or relating to the manufacture of resilient rollers for printing. (August 9, 1957.) Coating central shaft with polymethane made of polyester with acid value below 3 mg KOH per gram and viscosity of 50 to 150 poises at 25° C.

64775. Imperial Chemical Industries Limited. Process for the manufacture of ferrocene derivatives. (August 12, 1957.) By reducing acyl derivatives of ferrocene.

64776. Imperial Chemical Industries Limited. New pharmaceutical compositions containing ferrocene derivatives. Containing as active ingredient ferrocene derivative which has as substituents hydrogen, hydrocarbon or acyl radicals in its rings.

64777. S. Smith & Sons (England) Limited. Improvements in or relating to Tubing. (August 7, 1957.) Comprising helically wound strip material having overlapping convolutions formed with one or more inter-engaging helical ribs and grooves and passed substance between the overlapping convolutions bonding them together.

64778. The General Electric Company Limited. Improvements in or relating to dynamo electric machines. (July 31, 1957.) Paths for cooling fluid are contained wholly within normal insulation of the winding except at, or adjacent to supply and discharge pipes.

64779. J. R. Geigy A.-G. Process for the production of new carbostyryl derivatives. Heating substituted malonic acid ester with a substituted diphenyl amine.

64780. Chas. Pfizer & Co., Inc. Pharmaceutical compositions and preparation thereof. The composition comprises a substituted amino-propyl phenoxazine and a pharmaceutical carrier.

64781. B. Lichtenstein. An improved frame for use in the packing of goods for transport. Frame characterised in that corner pieces have pairs of bent lugs and abutments to slidably receive, hold and limit entry of elongated members.

64782. G. Bosio. Basket for the centrifugal spinning of textile fibres and bearing apparatus therefor. The top of the basket being joined with the side wall and a central hole axial to the basket is provided through which the filament pass.

64783. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica. Polymerising styrene or a ring substituted derivative thereof in the presence of a liner high molecular weight polymer substantially 1, 2— or 3, 4—enchainment of a conjugated diolefin having the formula $\text{CH}_2=\text{CH}-\text{C}_n\text{R}_1=\text{CH}_2$ in which R is a hydrogen atom or a lower alkyl group and a radical initiator.

64784. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Carbamates of disubstituted 1, 3-butanediols and process for the preparation thereof. Comprising transforming a disubstituted butanediol into the corresponding monocarbamate by treating the said diol either first with phosgene and then with ammonia or first with an ester of a haloformic acid and then with ammonia or with an amide of a haloformic acid.

64785. Union Carbide Corporation. Improved block-resisting polyethylene composition. Admixture of 0.001 to 0.15 part by weight of exudable slip agent and waxy agent each 0.001 to 10, of antioxidant 0.01 to 0.50 of siliceous matter, 0.5 to 10 of polymeric olefine a balance polythene base resin.

64786. E. M. Arthur. Improvements in pliers. Pliers comprises adaptable hand grips and operative jaws to expand or contract split rings having holes.

64787. National Aluminate Corporation. Preparation of organic lead compounds. Comprises electrolyzing lead anode with anhydrous solution of frignard reagent in an inert organic solvent.

64788. General Mills, Inc. L-arginine-L-glutamate and process for its manufacture. (May 9, 1958.) Comprises dissolving L-arginine and L-glutamic acid in water and crystallizing L-arginine-L-glutamate by adding polar water-miscible organic solvent.

64789. Ciba Limited. Process for the manufacture of new polypeptides. Reacting amino acid or peptide molecule in the form of ester having free amino group with further amino acid or peptide molecule containing protected amino group in presence of condensing agent.

JULY 30.

64790. Eli Lilly and Company. Method of preparing erythromycin esters and the erythromycin esters resulting from said method. By reacting erythromycin or an acid addition salt thereof with an acylating agent capable of introducing an acetyl propenyl or acrylyl group.

64791. Monsanto Chemical Company. Herbicidal composition of matter. (August 3, 1957.) Containing compound of formula $R_x - \overset{\overset{X'}{\parallel}}{C} - \overset{\overset{R'}{\mid}}{N} \begin{matrix} \\ R'' \end{matrix}$ x, x' being

sulphur or oxygen, R, R', R'' being aliphatic radicals, diluent a surface active agents.

64792. Monsanto Chemical Company. Herbicidal composition of matter. (August 3, 1957.) Comprises N:N-diphenyl or dialkyl alpha chloroacetamide in a carrier and a surface active agent.

64793. Smith Kline & French Laboratories. Improvements in or relating to stabilized phenothiazine preparations. (April 3, 1958.) Mixing phenthiazine compound with saccharin or a water soluble salt of saccharin.

64794. Rodi & Wienenberger Aktiengesellschaft. Expanding link bracelet. [Addition to No. 58873.] Coil wire spring is loosely slipped, with at least one of its ends, on to one of the connector bails stubs.

64795. Pending.

64796. George Angus & Company Limited. M. Balkin and D. G. Turner. Improvements in the production of reinforced endless rubber belts or bands. Comprising winding the cord on to a layer of rubber on a cylindrical mandril.

64797. T. E. R. Smith and The Colombo Commercial Company Limited. Apparatus for facilitating the exposure and removal of stalk and fibrous substances from fired tea. (September 9, 1957.) A continuous conveyor band or pliable and resilient construction providing a pliable and resilient inclined upper surface, an open-topped feed hopper arranged above said inclined surface.

64798. Svit, Narodni Podnik. Machine for automatically connecting rubber soles to leather or textile vamps. Comprising an upper supporting bridge connected with a rotatable pressure foot moved by an independent cylinder.

64799. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Sulfonyl-ureas and a process for preparing them. Heating urethane with cystamine.

64800. Cognate with application No. 62858.

64801. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs soluble in water and process for their manufacture. Coupling aromatic diazo component with coupling component, at least one of the two components containing one or more acrylic acid radicals which are bound to dyestuff molecule through nitrogen bridge.

64802. E. Feidner. Improvements in or relating to structural building units. Having load supporting section members, in which non-metallic corner sections usually concrete supports the load.

JULY 31.

64803. S. P. Joshi. Improvements in or relating to closures for containers. Comprising a sealing ring which engages with the neck of the container, said ring having a hole and an auxiliary part removably fitted to said hole.

64804. Void.

64805. Simon-Carves Limited. Method and apparatus for the treatment of industrial effluents. A plurality of bacteria adapted for the destruction of phenols, thiosulphates, thiocyanates, cyanides and ammonia are cultivated and the bacteria are contacted with the effluent, nutrients being added to the effluent during the process.

64806. Pending.

64807. Oliver Pell Control Limited. Vibratory electric motor. Two opposed and similar armatures hingedly connected to the stator unit for movement towards and away from each other under intermittent magnetic force, a coupling for two armatures.

64808. The British Cotton Industry Research Association. Improvements in or relating to positive double-lift openshed dobbies for looms for weaving. (August 1, 1957.) Each hook in association with secondary hook formation and the bulk end constitutes a front stop and a back stop.

64809. Baltaz Carl Von Platen. Watercock. With valve-seating and valve-head containing a sealing packing.

64810. Aluminium Laboratories Limited. Process and apparatus for decomposing aluminium subhalide gas in subhalide distillation of aluminium. Comprising cooling gas by exposing it to molten aluminium at a lower temperature than the gas to effectuate decomposition, and maintaining molten aluminium at lower temperature by contacting the molten aluminium with molten salt and removing heat the molten salt.

64811. Societe Anonyme De Participations Appareillage Gardy. Insulator. Comprises a body which in cross-section presents oblong-sections and provided with at least two anchorage members at least partially embedded in its mass.

64812. Dr. Karl Thomae Gesellschaft mit beschränkter Haftung. Process for the production of 4-oxo-2-(halogenalkyl)-2:3-dihydro-(benzo-1:3-oxazines). [Addition to No. 60815.] Wherein salicylamide and acrolein are treated with hydrogen halogen in presence of acids other than acetic acid.

64813. Unilever Limited. Process for preparing fatty foodstuffs incorporating a flavouring agent. (August 19, 1957.) A lactone of the formula $C_n-CH_2-CH(R_1)-CH(R_2)-C(=O)-CH_2-CH(R_3)-CH_2-$ wherein R_1 and R_2 are hydrogen or acyclic alkyl groups, and R_3 is bivalent non-aromatic hydrocarbon radical, is incorporated in the foodstuff.

64814. R. K. Agarwal. Improvements in or relating to traffic control apparatus. Provided with electronic time delay relays employing cold cathode trigger valves for the purpose of obtaining time interval in the required sequence of coloured lights.

64815. Toyo Boseki Kabushiki Kaisha and Howa Kogyo Kabushiki Kaisha. Continuous production of slivers from textile fibres. Feeding the opened, mixed and blended fibres in a hopper means through which the fibres are formed into the continuous lap ready for the carding without the conventional roll lap formation.

64816. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Improved process for the polymerisation of alpha-olefine. In the stereospecific polymerisation of alpha-olefines in the presence of a catalyst, there is added a compound of the formula A-Hal, where A is hydrogen or a hydrocarbon radical.

64817. Void.

AUGUST 1.

64818. Void.

64819. B. Acharyya. Animal driven pumping set. Comprising single cylinder double acting reciprocating pump with a common suction pipe connected through suction valve boxes and a common delivery pipe connected through delivery valve boxes and step-up gear box mounted on common base frame, piston rod of the pump being connected to the gear box through two connecting rods and a common cross-head bar.

64820. Societe Des Usines Chimiques Rhonepoulenc. New derivatives of 2-piperidylphenyl-methanol process for their production and pharmaceutical compositions containing the same. By benzylating by known methods of amino group of 2-piperidylphenylmethanol.

64821. Imperial Chemical Industries Limited. Process for the manufacture of tertiary-alkylferrocenes. (August 12, 1957.) Ferrocene is alkylated with tertiary alkyl halides.

64822. H. W. Burrington. Thermoplastic yarns and method of processing same. Continually twisting the yarn drawn from a source of supply continually passing the yarn at a selected linear speed under uniform tension.

64823. Metropolitan-Vickers Electrical Company Limited. Improvements in and relating to control equipment for electric motor traction drives. (August 9, 1957.) Wherein the tractive effort is controlled by top-changing means which adjust the voltage allied to traction motors from a transformer.

64824. Beecham Research Laboratories Limited. Improvements in or relating to 6-amino penicillanic acid from penicillin-producing moulds. (August 2, 1957.). Isolating 6-aminopenicillanic acid from fermentation liquor obtained by growing penicillin-producing mould in aqueous medium containing source of carbon, nitrogen, inorganic salts, by absorption on ion exchange resin.

64825. Ciba Limited. Process for the manufacture of pilosomyein its components A and B and acid addition salts of these compounds. A strain of streptomyces galilaeus n. sp. A 18822 is cultivated in an aqueous nutrient medium.

64826. Void.

64827. F. D. Pudumjee. Improvements in or relating to the production of bleached pulp for the manufacture of paper and for like purposes. Mixing fibrous raw material with aqueous solution of chloride and subjecting the mixture to electrolysis.

AUGUST 2.

64828. Khira Steel Works Private Limited. Improvements in or relating to table tops of the kind having metal beadings fixed thereon. Beading is formed by the combination of two channelled frames, one having on its flangs a series of spaced pins and the other spaced holes corresponding to pins.

64829. Khira Steel Works Private Limited. An improved device for suspending drawers in a cabinet or the like. Drawer is provided with a pair of short length L-shaped brackets and a pair of slits or openings formed in its longitudinal sides and a curved slots formed at the back side through which projects inside drawer the free end of a sliding catch to the opposite end of which are fixed pivotally two extended strip arms.

64830. Khira Steel Works Private Limited. An improved locking device for the drawers of the cabinet or the like. Comprises essentially of a cabinet

proper with a number of drawers slidably mounted one below the other in the cabinet frame.

64931. Imperial Chemical Industries Limited. New phthalocyanine compounds. (August 7, 1957.) [Addition to No. 59736.] Reacting amino-phthalocyanine compound with a triazine.

64832. Imperial Chemical Industries Limited. New azo dyestuffs. (August 16, 1957.) Interacting naphthol like 1-amino-8-naphthol-4 and 6 sulphonic acids and diazonium compound of aminoazo compound obtained by coupling diazotised acylamine like 4-sulphamyl aniline with para-coupling amine like aniline.

64833. F. Nouvion. Electrical traction equipment. Equipotential points located in the circuits of traction motors connected in parallel are provided with cross-connection between them having variable impedance, also control means are provided for regulating this impedance.

64834. The Standard Oil Company. Motor fuel additive composition. 5 to 15 per cent. by wt. of 2-methyl pentanediol-2, 4 borate dissolved in balance of bis-(2-methyl pentanediol-2, 4) diborate.

AUGUST 4.

64835. Chas. Pfizer & Co., Inc. Therapeutic compositions containing 2-(substituted)-1, 3-diazacycloalkenes-2 and acid addition salts thereof. [Divided out of No. 60066 and ante-dated to April 1, 1957.] The composition comprises a 2-(N-substituted)-1, 3-diazacycloalkene-2 or salt thereof and a pharmaceutical carrier.

64836. Rohm & Haas Company. Method for preparing pesticidal carrier. Reacting a diatomaceous calcium silicate with carbon dioxide at 0 to 90° C.

64837. Void.

64838. Void.

64839. Void.

64840. D. Napier & Son Limited. Improving the fire resistance of light alloy articles. (August 7, 1957.) Applying to light alloy article a surface layer of a metal having better fire-resisting properties than the light alloy.

64841. D.C.B. Limited. Improvements in or relating to ball pointed writing instruments. (August 6, 1957.) Forming base seating for writing ball in ball housing of nib by providing in core pin serving to form housing concave depressions spaced around the axis of pin so that when a material is introduced into mould cavity, corresponding convex mounds are formed which on contact with ball can be deformed to provide base seats for ball.

64842. Imperial Chemical Industries Limited. Antibacterial compositions. (August 19, 1957.) Containing not more than 5 per cent. by wt. of compound like 3-(5'-nitro-2'-furfurylidene) oxindole and soap.

64843. Void.

64844. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica and K. Ziegler. Process for polymerizing alpha-olefine. Adding from 0.1 to 10 mols per 100 mols of transition metal of stereospecific catalyst, salt of an organic ternary or quaternary base of formula $A(R)_nX$ where A is element of group VB or VIB of periodic table, R is alkyl or aryl or alkylaryl groups n is 4 or 3 and X is halogen atom.

64845. The Pyrene Company Limited. Fireextinguishing composition. Comprising at least 25 per cent. by weight of potassium sulphate with flow promoting agent.

64846. Ustav Pro Vyzkum Motorovych Vozidel. An internal combustion engine with localized self-ignition. A plurality of discharge orifices distributed on the circumference of the multi-orifice nozzle, one nozzle nearest to the combustion space edge directed to it and perpendicular or almost perpendicular to the direction of rotating air.

64847. Ustav Pro Vyzkum Motorovych Vozidel. An internal combustion engine with localized compression ignition and direct fuel injection from a single-orifice, a pintle- or another orifice-nozzle. The injection nozzle is arranged at an angle with respect to the combustion chamber.

AUGUST 5.

64848. Automatic Telephone & Electric Company Limited. Improvements in mounting arrangements for transducer head assemblies. (August 13, 1957.) A mounting plate for drum is provided with a circular groove concentric with drum and an arm with respect to drum provided with a projection running in groove.

64849. Indian Telephone Industries Private Limited. Improvements relating to Telephone Receivers of the balanced armature type using non-magnetic diaphragm. Coupling air volume behind non-magnetic diaphragm within the back cover to an outside air volume through one or more holes covered with thin washers of acoustic resistance material such as silk.

64850. Westinghouse Brake & Signal Company Limited. Improvements relating to vigilance control apparatus for automotive railway vehicles. (August 23, 1957.) Wherein a timing reservoir is alternately charged and discharged the pressure therein.

64851. Westinghouse Brake & Signal Company Limited. Improvements relating to vigilance control apparatus for automotive railway vehicles. (August 23, 1957.) Which apparatus comprises an electromagnetically operated valve which depending upon a reservoir with a charging source.

64852. Westinghouse Brake & Signal Company Limited. Improvements relating to vigilance control apparatus for automotive railway vehicles. (August 23, 1957.) Having a timing reservoir the pressure in which it allowed to fall too far, being effective to set in progress a sequence of emergency operations.

64853. L. J. Buil. Container for the storage of different substances or products separated from one another until the moment of mixing them together for their immediate use. Comprising two receptacles connected by means of an intermediate construction having a plug which is displaced when an injection syringe is extended into the upper receptacle, thereby bringing about the mixture of the two substances to be injected contained in the receptacles.

64854. Fuller Company. Apparatus for discharging pulverulent material. A baffle within the vessel separating the space adjacent discharge outlet within main portion of the vessel and forming partly a passage for flow of fluidised material.

64855. Dunlop Rubber Company Limited. Apparatus for the heat treatment of thermoplastic materials. (August 17, 1957.) Comprising fluid bed container having an orifice, movable sealing means to be moved to a closed or open position and movable vanes in fluid bed which can be moved to a closed position in which they enclose portion of fluid bed, preventing remainare of fluid bed from reaching orifice and to an open position in which they permit free passage of fluid bed particles over the orifice.

64856. Imperial Chemical Industries Limited. Improvements in the manufacture of trialkyl boranes. (August 30, 1957.) Heating a mixture of boric oxide or a metal borate and one or more alkyl aluminium halides and condensing the vapour of the resulting trialkyl borane.

64857. Imperial Chemical Industries Limited. Improvements in and relating to the production of portland cement clinker. (September 11, 1957.) Comprising precipitated chalk and argillaceous material in which the raw materials prior to introduction into kiln are mixed under the action of kneading and sheering forces.

64858. International Combustion (Holdings) Limited. Improvements in or relating to liquid fuel burning installations. (Aust 27, 1957.) Comprising a

first burner and a second burner provided with an air register, cooling means for second burner.

64859. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of benzoquinolizine compounds. (August 6, 1957.) Cyclising 1-(β -phenylethyl)-2-oxo-4-alkylenedioxy-piperidine hydrolysing the product with acid and converting resulting substituted 2-hydroxy-3, 4, 6, 7-tetrahydro-benzo [α]-quinolizium salt into correspondingly substituted 2-hydroxy-1, 2, 3, 4, 6, 7-hexa hydro-11 bH-benzo [α]quinolizine.

64860. Sandoz Ltd. The manufacture of new hydrazone derivatives of podophylic acid and picropodophyllic acid. (May 15, 1958.) Reacting hydrazides with carbonyl compounds.

64861. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. New dyestuffs of the anthraquinone series and process for their manufacture. Hydrolyzing the condensation product obtainable by reacting α -aminoanthraquinone with aromatic acid chloride substituted by phosphoric acid dichloride group and converting the hydrolysed product into alkali metal or ammonium salt.

64862. Kyowa Hakko Kogyo Kabushiki Kaisha. A method of producing citric acid by fermentation. Cultivating trichoderma viride in culture medium containing carbohydrates nitrogen sources and inorganic mineral sources.

64863. Void.

64864. Void.

64865. Cognate with application No. 64865.

64866. Ciba Limited. Detergent containing as an optical brightening agent a di-[benzimidazolyl-(2)]-ethylene compound. A detergent containing di-[benzimidazolyl-(2)] ethylene compound as optical brightening agent.

64867. United States Borax & Chemical Corporation. Process for separating components of a particulate mixture by means of flotation reagents. Including the step of releasing the alkylamine from the separated coated component by adding thereto an aqueous alkaline solution and separating the uncoated particles from the released alkylamine.

64868. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Leuco-sulphuric acid esters of dyestuffs of the benzanthrone-pyrazolanthrone series and process for their manufacture. Converting dyestuff of benzanthrone-pyrazolanthrone series containing alkoxy group into leuco-sulphuric acid ester.

64869. Libbey-Owens-Ford Glass Company. Method of and apparatus for cleaning glass sheets. Glass sheets in which the sheets are passed through a furnace and bent while in said furnace.

AUGUST 6.

64870. Void.

64871. The Bengal Immunity Co., Ltd. Improvements in or relating to the preparation of hydrazine. Reacting sodium hypochlorite with urea and alkali in presence of gelatine as catalyst.

64872. The M-O Valve Company Ltd. Improvements in or relating to thermionic valves including ceramic components. (August 8, 1957.) A layer of metal comprising manganese either alone or with one or more of the metals molybdenum, nickel, iron, tungsten, chromium, cobalt is formed on the ceramic body and subjected to firing in a non-oxidising atmosphere to a sufficient temperature to bond it in position.

64873. The General Electric Company Limited. Improvements in or relating to methods of metallizing surfaces of ceramic bodies. (August 8, 1957.) Comprising manganese either alone or with a smaller proportion by weight of a second constituent consisting of one or more of the metals molybdenum,

nickel, iron, tungsten, chromium, cobalt, and firing the layer in a non-oxidising atmosphere.

64874. Whitin Machine Works. Builder mechanism for winding yarn and building yarn packages on bobbins or other similar yarn carriers. Having a rotated builder cam, a builder lever engaged by said cam, a roll on said lever, ring-rail-moving devices.

64875. Whitin Machine Works. Manually controlled brake apparatus effective for stopping spindles in spinning or twisting frames. Comprising brake members mounted to embrace a rotated part of a spindle on opposite sides thereof.

64876. Pechiney Compagnie de Produits Chimiques et Electro-metallurgiques. Process and apparatus for heating and cooling powders. Treating the powder with a gas so as to form a dispersion of powder in gas, carrying along said dispersion in contact with heated or cooled walls.

64877. Merck & Co. Inc. Process for producing N,N'-substituted hydrazines. (January 13, 1958.) Void after publication. Reacting N-(3,3-diphenyl-3-hydroxypropionyl) hydrazine with an acylating agent to form the corresponding N-(3,3-diphenyl-3-hydroxypropionyl)N'-acyl hydrazine.

64878. D. Napier & Son Limited. Rotors for multi-stage axial flow compressors or turbines. Blades are mounted on the peripheries of discs and blade rings are provided with projections which enter notches in annular driving members.

64879. D. Napier & Son Limited. Rotors for multi-stage axial flow compressors or turbines. At least two adjacent rings of blades have root portions with forward and rearward projections which lie within holes adjacent peripheries of parallel supporting discs.

64880. W. & T. Avery Limited. An improved precision potentiometer. (August 10, 1957.) Comprising a former, a single complete helical turn of resistance wire mounted on the former, a terminal means for connecting the ends of the resistance wire to a source of electricity, a wiper mechanism including a spindle mounted on the axis of the turn of resistance wire for rotation through 360°.

64881. Ciba Limited. Manufacture of veterinary compositions. Comprises prednisolone 21-lower alkyl acetate in a pharmaceutical carrier.

64882. Void.

64883. Ciba Limited. New guanidine compounds and process for their manufacture. Alkyleneumino-alkylamines are reacted with a compound forming a guanidine group by reaction with the amino group or with salts of such latter compounds.

64884. J. N. Masci and H. F. Masoo. Antiseptic or germicidal composition. Comprising two phenolic materials and a powdered carrier.

64885. Portable Balers Limited. Improvements relating to fluid actuated testing apparatus. Comprising body with high and low pressure cylinders, differential ram incorporating high pressure generating ram and a low pressure generating ram, means for connecting high pressure and low pressure cylinders to sources of fluid pressure, non-return valve means and control valve means for controlling supply of fluid pressure to low-pressure cylinder.

AUGUST 7.

64886. Wall Macnaught Pty. Limited. Improvements in pumps for pumping viscous substances. (August 8, 1957.) Hand actuated means to move the plunger downwardly in a charging operation and a spring to move the plunger upwardly in a discharging operation.

64887. R. Georges. Improvements in or relating to bladed wheels, more particularly for gas turbines. Comprising in combination two discs coaxial with each other, a multiplicity of blades having their roots caught between

the peripheral portions of said disc faces and an annular member held between said discs.

64888. E. S. Tupper. Container and cover comprising a pair of open-mouthed engageable hollow members of plastic. Container with peripheral free edge and cover having an upper wall and raised peripheral rim member forming an inverted groove, whose outer wall having offset portion used as finger gripping means and selective elements of groove removably and frictionally engaging said peripheral edge.

64889. Ciba Limited. Process for the manufacture of the new 6-chloro-7-sulphamyl-3:4-dihydro-1:2:4-benzothiadiazine-1:1-dioxide. 5-chloro-2:4-disulphanuyl-aniline is reacted with formaldehyde.

64890. The O. Hommel Company. Low temperature enamelling composition and process of enamelling steel wares. Comprises a mixture expressed from analysis containing mol percentage of Na_2O 13.9 to 17.3, K_2O 0.4 to 3.0, B_2O_3 7.5 to 13.1, SiO_2 33.4 to 33.7, CaO 1.0 to 15.6, and the balance of at least one or more of metal oxides of the group consisting of Li_2O , CuO , MgO , TiO_2 , PbO , Al_2O_3 , BaO , ZrO , P_2O_5 , NiO , Co O_4 and fluorides.

64891. D. C. Baxter. Improvements in or relating to the smelting of iron ores. Continuously reducing ore by action of a continuous stream of reducing gas, and continuously consolidating the metal fines after reduction to produce a continuous stream of molten metal.

64892. Owens-Corning Fiberglas Corporation. Method of and apparatus for producing strand products and products so produced. Plurality of strands gathered in side-by-side parallel relation, and integrated in unitary relation as a single strand only in spaced zones along the length of the product.

AUGUST 8.

64893. V. K. Paranjape. Recovery of zinc in the form of metal or its compounds from galvanising plant residues. Separating the metal portion from dust, and treating the former with alkaline solution until all chlorine compounds are dissolved and recovering zinc which may be melted and cast into ingots.

64894. G. Hilgers (Dr.-Ing.). Method and device for continuously producing fuel gas. (May 16, 1958.) Characterized in that two eddy currents are formed of a carrier gas on the one hand, carrying the fuel substance to be gasified or converted.

64895. W. Petersen (Dr.-Ing.) and S. Wawroschek (Dr.-Ing.). A method of producing mixture briquettes. (June 4, 1958.) Characterized in that a mixture of fine ore with bituminous or brown coal and basic flux is produced and the mixture is processed to form briquettes.

64896. Caterpillar Tractor Co. Flow control valve for hydraulic jack-system. Flow control valve for use in a hydraulic system embodying two conduits which may be used selectively as pressure and exhaust conduits.

64897. American Cyanamid Company. Method of preparing tetracycline-metaphosphate complexes and complexes prepared thereby. (May 30, 1958.) Method of preparing comprises reacting a tetracycline antibiotic and freshly formed metaphosphoric acid under substantially anhydrous conditions.

64898. Whitin Machine Works. Yarn-guiding and anti-balloon devices for textile spinning machines. A yarn guide for each spindle an anti-balloon member for each spindle and means for raising and displacing rearwardly the said member.

64899. D. Napier & Son Limited. Starting systems for internal combustion engines. (August 8, 1957.) D.C. motor supplied from battery and driving a constant speed variable delivery pump which feeds a hydraulic motor.

64900. A. F. R. Peyron. Process and apparatus for the application and removal of make-up. A vibration generator arranged to swing an arm carrying an applicator having a surface for applying make-up.

64901. Creed & Company Limited. Improvements in printing telegraph apparatus. (August 9, 1957.) Including a keyboard, a plurality of code bars adapted to be moved according to a code combination on actuation of a key of the keyboard.

64902. B. B. Blackford. Method of improving the aging of pressure-sensitive adhesive coated fabrics and fabrics so produced. Blending into adhesive, prior to application to the fabric 1 to 10 per cent. by weight based on the adhesive of a fine particulate silica having an average particle size of about 0.01 to 0.03 micron.

64903. G. M. Pfaff A.G. Improvements relating to thread guide systems in sewing machines. An arcuate-shaped element extending from a part of pressure foot to an extent and in a plane located intermediate the path of movement of the needle and take-up lever.

AUGUST 9.

64904. Bansi & Co. Dual strike bicycle bells. Protruding hand lever when pulled by fore-finger, one of the free ends of two-way striker—strikes against upper hemisphere of bell at the end of its forward motion and the other end strikes against lower hemisphere at the end of its backward motion.

64905. V. H. Patel. Improvements in or relating to synchronous motors. Stator core in two parts, each having a central hole and poles projecting from base and disposed in pairs in a circle around the central hole at equidistant intervals, one of the poles being shaded and the other unshaded.

64906. Takeda Pharmaceutical Industries Limited. Water-soluble methylhesperidins and their production. Methylating hesperidin with a methylating agent in an aqueous solution of not more than 5 moles of an alkaline agent to 1 mole of hesperidin.

64907. Imperial Chemical Industries Limited. New monoazo dyestuffs. (August 23, 1957.) Reacting 2:4-dihalogeno-6-amino-s-triazine with diazotised arylamine.

64908. Dr. Karl Thomae Gesellschaft mit beschränkter Haftung. Pyrimido-[5, 4-d]-pyrimidine compounds and a process of making same. Reacting 2:6 dichloro-4, 8-dioxypyrimidinopyrimidine with phosphorous subiodide hydroiodic acid.

AUGUST 11.

64909. Void.

64910. American Cyanamid Company. Method of preparing L-lysine and edible compositions containing the same. Subjecting any of 5-formyl 2-oxovaleric acid, α -amino adipic acid or α -keto adipic acid to action of yeast enzymes.

64911. Stamicarbon N.V. Shaft furnaces for carrying out chemical reactions at high temperature. Wherein at least one chamber open at the bottom is located in the shaft for trapping hot rising gases containing components liable to condense higher in the furnace.

64912. Dunlop Rubber Company, Limited. Improvements in or relating to pneumatic tyres. (September 24, 1957.) [Addition to No. 54795.] Pneumatic tyre cover reinforcement comprising cutting or severing the loops of the looped edges.

64913. The Distillers Company Limited. Continuous process for the production of cobalamins. (September 13, 1957.) [Addition to No. 64245.] Fermenting a liquid nutrient medium under aerobic conditions with a cobalamin producing species of the genus propionibacterium.

64914. The British Drug Houses Limited. Method for the preparation of 6-methyl-3-oxo-4:6-dienic steroids. (August 19, 1957.) Reacting 3 β -hydroxy or 3 β -acyloxy-5 α -hydroxy-6-oxo-steroid with methyl magnesium halide, oxidising 3 β :5 α :6-trihydroxy steroid obtained and dehydrating the product.

64915. Wurttembergische Spindelfabrik G.m.b.H. Improvements in belt-tensioning means in spinning or twisting machines. (December 16, 1957.) Consists in the provision of variable fluid pressure means for tightening the belts or cords.

64916. Montecatini Societa Generale Per L'Industria Mineraria E. Chimica. Improved method of vulcanising substantially amorphous sulpho-chlorinated copolymers of alpha-olefine. Heating α -olefine copolymers in presence of metal oxides accelerators, stabilizers and one or more organic peroxide compounds.

64917. The British Petroleum Company Limited. New diols and their method of preparation. Reacting ethylene oxide with diol of the formula $\text{HOCH}_2\text{C(alkyl)CH}_2\text{OH}$.

64918. The British Petroleum Company Limited. New polyesters and their method of preparation. Reacting together a dicarboxylic acid, a saturated monohydric alcohol and a diol.

64919. The British Petroleum Company Limited. New polyesters and their method of preparation. Reacting a dicarboxylic acid and a diol.

64920. The British Petroleum Company Limited. Improvements relating to synthetic lubricants. Comprising a blend of liquid aliphatic diester of saturated aliphatic dicarboxylic acid and a polyester soluble in diester.

64921. The British Petroleum Company Limited. Improvements relating to synthetic lubricants. Comprising a blend of liquid aliphatic diester of saturated aliphatic dicarboxylic acid and a polyester soluble in the diester.

64922. The British Petroleum Company Limited. New polyesters and their method of preparation. (August 16, 1957.) Reacting a dicarboxylic acid, a saturated monohydric alcohol and a tricyclodecanedimethylols.

64923. The British Petroleum Company Limited. Improvements relating to synthetic lubricants. Reacting a dicarboxylic acid, a monohydric alcohol and a tricyclodecanedimethylols.

64924. S. A. J. Liljendahl. Improvements in or relating to water closets. Characterised in that the outlet is connectible through a waste conduit to a source of vacuum in order to promote discharging.

64925. International Combustion (Holdings) Limited. Improvements in or relating to steam generator and water heating equipment. (September 19, 1957.) A moving grate stoker arranged within combustion chamber so as to deposit at the back of the stoker ash produced by combustion on moving grate.

AUGUST 12.

64926. American Cyanamid Company. Preparation of substituted piperazines. (April 29, 1958.) By dehydrating tertiary alcohol 1-substituted-4-[3-(9-hydroxy-9-xanthyl) propyl]-piperazine.

64927. Marconi's Wireless Telegraph Company Limited. Improvements in or relating to noise suppressing circuits for radio receiving and other signal channels. (September 30, 1957.) Comprising a plurality of adjacent narrow band filters, a wide band filter and a differential amplifier.

64928. The General Electric Company Limited. Improvements in or relating to circuit arrangements for operating low pressure electric discharge lamps. (August 29, 1957.) Comprising an oscillator circuit arranged to be energised by the direct current source and to supply oscillatory power to the lamp.

64929. Heinrich Koppers Gesellschaft mit beschränkter Haftung. Process for the production of gaseous hydrocarbons. [Addition to No. 57190.] High molecular weight hydrocarbons are mixed with a gaseous heat carrier and the mixture is introduced into a reaction chamber.

64930. Elektrokemisk A/S. Process for tapping of electric smelting furnaces. An electric reduction furnace having a tapping hole extending through the bottom in the region of its centre.

64931. A. Schule. Cableway conveyor. Comprising two endless suspension and traction cables passed around guide pulleys at the two end stations, said cables carrying interconnected through type container by means of transverse bars attached to said cables.

64932. Pending.

64933. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for producing fast dyeing and prints on structures of aromatic polyesters, especially of polyethylene terephthalates. Treating in presence of alkali-building agent with aqueous solution of a salt of acid sulphuric acid ester or phosphoric acid ester of organic dye-stuff containing esterifiable hydroxyl group bound aromatically.

64934. Food Machinery and Chemical Corporation. Swivel pipe coupling. Includes inner and outer tubular members journaled for relative rotary motion and restrained from relative axial motion.

64935. Cognate with Application No. 64588.

64936. Ciba Limited. Manufacture of 11 α -hydroxy-17 α methyl-testosterone. Treating 17 α -methyl-testosterone with an enzyme of the fungus *Aspergillus Ochraceus* (CIBA—Species No. 924).

64937. Void.

AUGUST 13.

64938. Flex Fasteners Limited. Improvements in or relating to sliding clasp fasteners. (August 30, 1957.) Two tapes or similar flexible carriers at least one of which is provided with engageable interlocking members of closed ring like shape.

64939. Pending.

64940. The Goodyear Tire and Rubber Company. Improvements in tubeless pneumatic tire. Consisting of twisted filaments and in which the cords are embedded in a rubber compound containing a rubber in compatible migratory liquid.

64941. Carrier Corporation. Air conditioning systems for industrial applications. Comprising a thermostat and a humidistat located in the area to be treated, an air washer and means for throttling the spraying of water into the air as it passes through the air washer.

64942. Void.

64943. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to semi-conductive blocking-layer systems, particularly transistors or crystal diodes having a vacuum-tight envelope and methods of producing these systems. The space between the envelope and the blocking-layer system proper containing arsenic.

64944. Void.

64945. P. A. Mueller. Filter plugs for cigarettes and method of and device for manufacturing a filter rope therefor. Consisting of a bundle of fibres and fibre tufts.

64946. G. M. Pfaff A.G. Means for mounting the presser foot on sewing machines. A rotation-opposing cylindrical guide slot extending in the direction of sewing and with spring biased means.

AUGUST 14.

64947. Void.

64948. Farbenfabriken Bayer Aktiengesellschaft. Phosphonic acid esters. (May 30, 1958.) A phosphonic acid dihalide is reacted with an alcohol, a phenol, a mercaptan or a thiophenol.

64949. Void.

64950. Sandoz Ltd. The manufacture of new azetidine derivatives. (June 3, 1958.) By reacting $R'R'_2=7N.NH_2$ hydrazine derivative with malonic acid derivative $R_1R_2=C.Co.XCo$. Y where X and Y is chlorine, bromine or MN, azide group.

64951. Sandoz Ltd. The manufacture of new hydrazine derivatives. (May 27, 1958.) Reacting 1-alkyl-4-piperidyl hydrazines with aliphatic-oxo-compound and acelating reaction product.

64952. Sandoz Ltd. Process for the production of podophyllic acid derivatives. (June 5, 1958.) By reducing stereo-isomeric hydrazines of podophyllic and picropodophyllic acid with metal hydrogenation catalyst.

64953. Void.

64954. Void.

64955. A. S. Galla. A device for cutting paper and the like. Paper is engaged by the guide slot and then device is moved along the intended cutting line whereby blade cuts said paper.

64956. Council of Scientific and Industrial Research. Preparation of pre-digested protein rich food powders. Subjecting proteinaceous material to mould digestion.

64957. Council of Scientific and Industrial Research. A process for the preparation and isolation of gitalin and the corresponding lanatoside from digitalis species. [Addition to No. 62497.] Fractionating glycosides of digitalis by chromatography over alumina.

64958. Council of Scientific and Industrial Research. Improvements in or relating to polishing compositions. Comprising mixture of sisal wax and bees wax or shellac in turpentine of white spirit or naphtha.

64959. Council of Scientific and Industrial Research. A process for the preparation of dihydrojasmone. Octan-2-one is condensed with diethyl-succinate to produce a half ester which is lactonised to paraconic acid, which is decarboxyiated, to a mixture of lactone and unsaturated acid, the mixture being cyclodehydrated to dihydrojasmone.

AUGUST 16.

64960. Sisir Kumar Lahiri. Flasher for lighthouse lamps. Comprising one or more lighthouse lamps or the sound signal apparatus, and a reactor transformer characterised in that the secondary coil of the reactor transformer is provided with a short-circuiting arrangement.

64961. Void.

64962. Oldham & Son Limited. Improvements in or relating to battery separators. Curved fibre base is coated with a spreadable mixture of an industrial thermoplastic in powder form, a thickening agent and a solvent therefor.

64963. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. A process for the manufacture of phosphoric acid. Reacting sulphuric acid with natural phosphate material at 70—80° C. with SO_3 ions being 25—35 gms. per litre of liquid phase.

64964. Abbott Laboratories. Method for the preparation of novel ristocetin aldehyde compounds. (August 11, 1958.) Reacting ristocetin with aromatic aldehyde.

64965. Farbenfabriken Bayer Aktiengesellschaft. Improved fungicidal copper spray compositions. (June 2, 1958.) Comprising a polyglycol ether or a glycerolmono or di-fatty acid ester, a fatty acid metal salt and a fungicidal copper compound with a copper content of 5—70 per cent. by weight.

64966. Imperial Chemical Industries Limited. Fungicidal compositions. Comprising N-(4-methyl phenyl) dichloromaleimide and diluent.

64967. The British Oxygen Company Limited. Electric arc welding. (August 22, 1957.) Electric arc is established between the tip of a continuous

electrode and a workpiece, a stream of shielding gas is directed around the guide means, the tip of the electrode and the electric arc and over the welding zone.

64968. The British Oxygen Company Limited. Submerged arc welding. (August 22, 1957.) Heating the electrode tip to a high temperature approaching its melting point by arranging that the continuously fed electrode extends at least two inches beyond the current contact means for the electrode, the electrode being of a tubular form.

64969. The British Oxygen Company Limited. Electric arc welding. (August 22, 1957.) Welding current is conducted to the electrode through the conductive wire as the electrode is automatically fed to the electric arc by contact means at a distance of two inches from the electrode tip.

64970. Chloride Batteries Limited. Improvements relating to tubular type plates for lead acid electric accumulators. (August 22, 1957.) In which the tubes of woven, knitted, or braided oxidation resisting yarn are each fitted internally with a thin glass fibre cylindrical lining which lines the interior of the tube.

AUGUST 18.

64971. Void.

64972. The British Drug Houses Limited. Method for the preparation of 3 β -hydroxy-6-methylpregn-5-en-20-one. (August 28, 1957.) Reacting 3 β -acyloxy-25D-spirost-5-ene with a hypohalous acid or with N-bromoacetamine and perchloric acid to give a 3 β -acyloxy-5 α -bromo-25D-spirostan-6 β -ol, oxidising 3 β -acyloxy-5 α -bromo-25D-spirostan-6 β -ol at C and replacing bromine atoms.

64973. G. B. Matthews. Improvements in or relating to drill rods. Causing borings to pack around the drill rod to give it a working diameter substantially or approximately equal to boring or drilling diameter of cutter.

64974. L. de Roll S.A. Cabbage incinerators. Characterized in that lateral incinerator walls above the predrying grate are provided with nozzles through which it is possible to inject air.

64975. Farbenfabriken Bayer Aktiengesellschaft. Bistriazinylamino-stilbene compounds. (May 30, 1958.) 4:4-diaminostilbene-2:2'-disulphonic acid is reacted with cyanuric chloride and the reaction product is then reacted with diethanolamine and methylamine.

64976. Farbenfabriken Bayer Aktiengesellschaft. Process of bleaching textile materials. (May 30, 1958.) Treating textile materials with optical bleaching agents and then with chemical bleaching agent.

64977. Farbenfabriken Bayer Aktiengesellschaft. Water-insoluble azo dye-stuffs. (June 3, 1958.) A tetrazotised diamine is coupled with an azo component free of sulphonic acid and carboxylic acid groups.

64978. Farbenfabriken Bayer Aktiengesellschaft. Process for the production of thiophosphoric acid esters. (June 2, 1958.) [Addition to No. 61970.] Reacting α -halogeno-ethyl alkyl ether with dialkylthiol or dialkylthionthial phosphoric acid.

64979. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of water-soluble dyestuffs. Heating dyestuff having halogen-propionyl group in water in presence of agent with alkaline reaction.

64980. Pending.

64981. Union Franco Europeenne de Construction (U.F.E.C.). Prefabricated building elements. Wherein the building elements comprise uprights for forming posts of the building and slabs to be inserted between adjacent posts, thereby to form walls.

64982. Texthold A.G. Bobbin holder for textile machines. Two semi-circular clamps under spring tension about against the inner surfaces of the bores of yarn bobbins

64983. Oldham & Son Limited. Improvements in or relating to permeable diaphragm material ore particularly for use as an electric storage battery separator, and a process of manufacturing the same. (August 22, 1957.) Comprising a base diaphragm having formed thereon a continuous network layer forming of finely divided particles of the thermoplastic fused together at their points of contact.

64984. Macleans Limited. Dentifrices. (August 19, 1957.) Containing a minor proportion of a water soluble salt of nicotinic acid or of an ester of nicotinic acid.

64985. Usines Decoufle. Improvements in or relating to apparatus for feeding cut-tobacco, *e.g.*, for forming a filler in a continuous rod cigarette-making machine. Means to impel the tobacco in the first path substantially in the form of separated particles and means to apply to the tobacco particles external and generally centripetal force of such value in relation to the velocity of the particles.

64986. Birfield Engineering Limited. Improvements in or relating to anti-friction bearings. (August 31, 1957.) Cage being formed in one piece of synthetic material and provided with a seal too, said cage has integrally formed lip type sealing portion for line contact with a race of bearing.

64987. Ciba Limited. New addition products of epoxy compounds and amines, process for their manufacture and their use in single component casting resin and injection moulding compositions. An epoxy compound having two epoxide groups per molecule is reacted with a primary monoamine of formula $R-NH_2$.

64988. Ciba Limited. A new antibiotic referred to as "Actinomycin Z" and components thereof and pharmaceutical preparations containing these compounds and a process for making these substances. Aerobically cultivating streptomyces fradiae NRRL 2765 in aq-nutrient medium containing inorganic salts a sources of nitrogen and carbon.

64989. Ciba Limited. Process for the manufacture of new cyclo steroid compounds. Irradiating in absence of air 19-nonsteroid of type 19-non-testosterone or ester thereof.

64990. Void.

AUGUST 19.

64991. Void.

64992. Automatic Telephone & Electric Company Limited. Improvements in electrical measuring apparatus for measuring the insertion loss of transmission networks. (August 23, 1957.) Comprising an oscillator, a first capacitor, a switching device for alternately connecting and disconnecting the rectifier output of oscillator to and from, first capacitor to enable capacitor to be respectively charged to be fixed value and then discharged through a resistor.

64993. Dunlop Rubber Company Limited. Improvements in or relating to pneumatic tyres. (September 24, 1957.) A reinforcement for the tread region of a pneumatic tyre cover comprising a plurality of parallelogram-shaped sections of tyre building fabric incorporating a plurality of parallel filaments.

64994. J. R. Geigy A.-G. Process for the production of α -aryl-W-amino alkanolic acids and derivatives thereof. Hydrogenating α -aryl-cyanoacetic acid ethyl ethers to α -aryl- β -aliamines which in turn are subjected to reductive alkylation to the corresponding N-alkyl derivatives.

64995. International Computers and Tabulators Limited, formerly known as The British Tabulating Machine Company Limited. Improvements in or relating to shifting registers. (September 6, 1957.) Shifting register including a plurality of similar stages, each of which is adapted to provide dynamic storage for two or more signals, and a plurality of gates inter-connecting the stages in chain formation.

64996. Westinghouse Air Brake Company. Automatic control system for railway classification yards. Using electric signalling apparatus.

64997. Societe Des Usines Chimiques Rhonepoulenc. New imidazole derivatives and processes for their preparation. Comprises alkylation of nitroimidazole for N-alkylation.

64998. Bristol Laboratories Inc. Process for preparation of aromatic amides of trialkoxybenzoic acids having therapeutic value. Reacting a 3, 4, 5-trialkoxybenzoic acid halide, ester or azide with an ortho or meta di (lower) alkylaminoaniline.

64999. Ciba Limited. A method for the preparation of hardened artificial resin materials. Reacting epoxy resin with polymerisation product of 60 to 0 per cent. by weight polymerisation compound free from basic amino groups and 40—60 per cent. by weight of polymerisable compound with one tertiary amino group.

65000. Ciba Limited. A process for the manufacture of hardened artificial resin materials. Reacting epoxy resins with more than 1 epoxide group with copolymerisation product of compound with one C-to-C double bond and one tertiary amino group with one non-basic amide of copolymerisable acid.

65001. Ciba Limited. New addition products of epoxy compounds and amines, process for their manufacture and their use for the coating of pills. Reacting one mol of epoxy compound containing two epoxy groups per mol with 1.1 to 1.5 mols of saturated aliphatic primary monoamine containing two hydroxyl groups.

65002. Vapor Heating Corporation. Steam generator. Water which is heated in heating unit enclosed in a drum holding water is delivered into drum space at a pressure higher than that maintained in the drum space.

AUGUST 20.

65003. Inventa A. G. Fur Forschung Und Patentverwertung. Process for the production of multivalent alcohols from sorbitol. Process consists of subjecting only up to 70 per cent. of sorbitol to hydrogenation cleavage, followed by filtration, cooling and conducting of the reaction mixture thus obtained at 10 to 16° C. over an anion exchanger impregnated with boric acid.

65004. K. Sakaguchi. Improvements in or relating to percussive rock drilling tools. Rotatable percussive rock drilling tool bit comprising a tool body having a diametrical slot, a cutting member of uniform width, and abutment members each of which is so designed as to tightly fill up each of the spaces or both sides of the cutting member.

65005. Ciba Limited. Process for the manufacture of new antibiotic designated as holomycin and its derivatives. By cultivating strain of streptomyces griseus NRRL 2764 in nutrient solution.

65006. Establishment Pacor. Polymerisation process. (August 21, 1957.) By low temperature polymerisation of acrylic acid in solution at 20° C. to 100° C.

65007. T. J. R. Bright. Improvements in or relating to clips or tags for window sealing components for the exclusion of draughts or moisture or for carrying beading or moulding. Having inwardly directed tang for frictionally engaging a flange or equivalent part on which the clip or tag is intended to be mounted.

65008. T. J. R. Bright. Improvements in or relating to clips or tags for window sealing components for the exclusion of draughts or moisture or for carrying beadings or mouldings. Characterised in that each tang is of "V" shape in cross-section and has a pointed extremity for frictionally engaging the flange or equivalent part.

65009. Glaxo Laboratories Limited. Improvements in or relating to the production of β -ionone. (August 30, 1957.) Cyclising pseudo-ionone in the presence of sulphuric acid and diisopropyl ether.

65010. British Insulated Callender's Construction Company Ltd., and British Insulated Callender's Cables Ltd. Improvements in or relating to electric insulators for supporting overhead electric conductor and overhead electric power transmission lines incorporating such insulators. (September 19, 1957.) [Addition to No. 62068.] Comprising a body of insulating material mounted on one end of a stem which is a rigid rod or tube of resin bonded glass fibre the other end of the stem being secured by a compression joint to a metal sleeve provided with means whereby it may be attached to a support for insulator.

65011. The Jay Engineering Works Ltd. Improvements in or relating to A.C. fans. The rotor comprising laminations die cast with an outer ring providing the final outer shape of the fan rotor body and to the said ring the blades are connected and also the top and bottom covers are removably fitted to said ring.

65012. Siemens & Halske Aktiengesellschaft. Improvements in or relating to polarised electromagnetic relays. (September 16, 1957.) Including two pole pieces facing a rotatable armature across air gaps, means for causing a permanent magnetic flux across said air gaps, wherein the permanent and control fluxes are in the same direction in one air gap and in opposite directions in the other gap.

65013. Gesellschaft Der Ludw. Von Roll'schem Eisenwerke A.G. A process for the manufacture of steel. (August 6, 1958.) The furnace is charged with at least 20 per cent. by weight of liquid pig iron covered by a solid layer of steel scrap and iron ore or other iron oxide and slag forming additions are embedded in one or more localised regions.

AUGUST 21.

65014. M. M. Nanavati. Improvements in or relating to pieces for use in word building and the like games. Piece of polythene or like provided at its ends with longitudinal projections which are similarly rebated on opposite sides respectively, a stud projecting laterally from rebated side of one of the projections and a hole complementary to the stud formed in the other projection, the piece being connectible end to end with another piece.

65015. Painter Brothers Limited. Improvements in lattice poles for the support of electric transmission lines or for other purposes. (September 19, 1957.) [Addition to No. 50542.] Comprising two legs each of two longitudinally extending angles spaced apart and so disposed that two sides of angles extends inwards towards one another with their edges spaced apart, the gap between the edges being bridged by cross members and two legs or pole being attached to one another by braces extending between cross-members of one leg and cross-members of other leg.

65016. Phrix-Werke Aktiengesellschaft. Apparatus for wet spinning or wet treatment of synthetic filaments. Wet treatment of synthetic filaments in tanks, in which the floor of the treating tank is ribbed.

65017. Void.

65018. Eternit S.p.A. Improvements in or relating to the manufacture of asbestos-cement pipes. Comprising a machine of the cardboard making type provided with two pipe forming units in series.

65019. E. V. Twose (Manufacturing) Limited. Improved mechanism for delivering small objects or granular materials at a controllable rate. (September 26, 1957.) Comprising a housing having an inlet for communication with a supply source for objects to pass in the housing and an outlet of the housing for discharge.

65020. P. Krumholz and K. J. Bril. A process for separating rare earth elements and yttrium by ion exchange. Comprises the elution of an ion exchange resin bed saturated or nearly saturated with the mixture to be separated with the solution of a complexing agent through a second ion exchange bed in the zinc or cadmium state.

65021. Pending.

65022. P. Krumholz. An improved process of separating rare earths by fractional precipitation of their hydroxides or basic salts. Reacting solutions of rare earth salts with successive portions of an alkali or ammonium hydroxide in the presence of a low molecular weight of aliphatic carboxylic acid.

65023. Pending.

65024. K. J. Bril and P. Krumholz. A process for separating yttrium and rare earths. Precipitating a part of the rare earth elements and of the yttrium in form of their double potassium or/and ammonium chromates, the precipitation is performed in presence of potassium or/and ammonium ions and of at least 0.02 moles per liter of bichromate ions.

AUGUST 22.

65025. Void.

65026. American Cyanamid Company. Preparation of steroidal compounds of the pregnene series. [Divided out of No. 61638 and ante-dated to September 4, 1957.] 16α , 21-dilower alkanoylox-11 β 17 α -dihydroxy-1, 4-pregnadiene-3, 20-dione is reacted with a dehydrating agent.

65027. American Cyanamid Company. Preparation of steroidal compounds of the pregnene series. [Divided out of No. 61638 and ante-dated to September 4, 1957.] A 16, 21-dilower alkanoyloxy-17-hydroxy 1, 4, 9(11)-pregnatriene-3, 20-dione is reacted with an N-bromoacid amide.

65028. E. I. Du Pont De Nemours and Company. Polyoxymethylene Diethers. Made by reacting a high molecular weight polyoxymethylene with a dialkyl acetal, preferably methylal, in an acidic medium at low temperatures.

65029. The British Oxygen Company Limited. Electric arc working apparatus. (August 28, 1957.) Comprising a hollow body, means for mounting non-consumable primary electrode within, a nozzle adapted to be secured to the body to define with the body a conduit for cooling fluid and having a narrow passage for communication with the interior of the body.

65030. The British Oxygen Company Limited. Collet devices for locating rod-like electrodes in welding or cutting heads. (August 29, 1957.) A collet device having a sleeve acting as a holder for the electrode formed with a surface adapted to make a ring contact with a frustoconical or rounded seating surface within the head, the surface of a sleeve and seating surface being relatively movable.

65031. Merck & Co., Inc. Process for the preparation of furfurals. (March 3, 1958.) Reacting 5-hydroxymethyl furfural with an aliphatic alcohol or with itself in the presence of an acid catalyst.

65032. Standard Telephones and Cables Limited. Ferrite matrix storage device. Comprising ferrite storage elements arranged in lines and columns, lines wires each of which threads all the elements of one of the lines and column wires each of which threads all the elements of the columns, a storage element actuated for writing or reading, a reading common to all storage elements and connections to column or line wires.

65033. Aerovap Holdings Limited. Improvements in or relating to a pack for a volatile material. (August 23, 1957.) Having deposited on foraminous non-volatile structure volatile liquid insecticide.

65034. Aerovap Holdings Limited. Improvements in or relating to a pack for a volatile material. (August 23, 1957.) Having deposited on foraminous non-volatile structure volatile solid insecticide.

65035. Aerovap Holdings Limited. Method and apparatus for producing coatings of pesticides or other volatile materials on a surface. Passing forced heated draught of air or gas over volatile pesticide onto surface.

65036. Cognate with 64598.

65037. P. Krumholz. A process for separating ions of rare earth elements and of yttrium by ion exchange. Comprises the elution of an ion exchange resin bed saturated or nearly saturated with the mixture of the ions to be separated with a solution of a complexing agent.

65038. The British Petroleum Company Limited. Improvements relating to lubricating compositions. Comprising lubricating oil having dissolved in it up to 40 per cent. by weight of the composition of an additive consisting of a polymeric organic formula on Alm_{xp} , while x is an acylate group, m , n and p are integers, m is not less than 2, m/n is 0.75-2.0 and m/p is 0.5-3.0.

65039. Void.

65040. C. F. Boehringer & Soehne G.m.b.H. M-Aminobenzene-sulphonyl ureas and process of preparing the same. (August 12, 1958.) Reacting a benzene sulphonamide with a carbonic acid chloride of formula Cl-CO-NHR Alxyl.

65041. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. New pigment dye-stuffs and process for their manufacture. Diazotised 1-aminobenzene-2-sulphonic acid is coupled with an arylamide of 2:3-hydroxynaphthoic acid.

AUGUST 23.

65042. Void.

65043. Void.

65044. Ciba Limited. Process for the manufacture of aminosteroid compounds. Reacting a keto-steroid with an amine.

65045. Pending.

65046. H. R. Fehling. Improvements in or relating to ball-pointed writing instruments. (August 28, 1957.) Increasing the clearance between the writing ball and its seatings in the housing by subjecting the exterior of the nib to a constricting force or forces in a zone extending circumferentially of the nib exterior.

65047. The English Electric Company Limited. Improvements in and relating to magnetic amplifier controlled relay systems. (August 30, 1957.) Having a damping transformer in a feed-back loop connected to be energised by a rectifier signal derived from the output of the amplifier.

AUGUST 25.

65048. Void.

65049. Bataafse Petroleum Maatschappij N.V. Process for the removal of carbon black from suspensions thereof in water. Contacted suspension with water-immiscible hydrocarbon fraction cooling between 190—400° C. at 60—95° C. and separating aggregates formed.

65050. Tecalemit Limited. End fitting for plastic tube. (August 26, 1957.) Comprising a metal ferrule which is adapted to be fitted upon the end of the tube and is so shaped as to provide a part which fits within the end of the tube.

65051. Air Exchangers Limited. Continuous type heat exchanger for heating gases. (August 30, 1957.) Comprising an elongated casing of constant cross section a central elongated baffle within the casing of smaller section and shorter than the casing, a zig-zag wall between the casing and central baffle a wall extending at both ends beyond the central baffle but not beyond the ends of the casing, a combustion chamber discharging combustion gases towards one end of the baffle.

65052. F. R. Larrad. Device for use in locating, gripping or packing articles such as work pieces or components. A body part receiving a plurality of plungers for axial movement whereby latter can be subject to the action of a common body of fluid.

65053. Ciba Limited. Manufacture of new benzimidazoles. (August 26, 1957.) A 5-nitro-2-heterocyclyl-methyl-benzimidazole is reacted with a reactive ester of the alcohol OH-AR¹.

65054. Ciba Limited. Manufacture of new benzimidazoles. (August 26, 1957.) 5-nitro-2-naphthyl-methyl-benzimidazole is reacted with a reactive ester of an alcohol of the formula HO-Alk--N.

65055. Ciba Limited. Tanning process. The hide or pelt is treated with a condensation product of formaldehyde with a higher alkanoguanamine for tanning and simultaneously stuffing the same.

65056. Cognate with Application No. 63684.

65057. Mrs. Beryl Alice Enid DePenning. An improved method of and apparatus for producing thin-walled vessels from thermo-plastic material. Heated pit of synthetic material placed on the aperture of mould and pressed by supporting table on the other side and compressed air introduced to a pipe opening into surface of the table opposite the mould aperture to urge the foil into the mould, forcing backwards a plunger into the mould against a spring or a weight.

65058. Molins Machine Company Limited. Improvements in or relating to apparatus for conveying cigarettes. (September 6, 1957.) Two conveyors arranged side-by-side to carry two rows of cigarettes side ways, a transfer conveyor for receiving cigarettes of one row and movable parallel to said conveyors to feed.

65059. S. Takita. Device for drafting slivers and other fibrous strands. Interposing a combing roller between the front and back pairs of drafting rollers.

65060. Void.

AUGUST 26.

65061. Dynamit-Actien-Gesellschaft vormals Alfred Nobel & Co. Process for the polymerisation of vinyl compounds. A water-soluble ammonium salt of the half ester of the mixed polymer of styrene and maleic acid anhydride is used as suspension agent.

65062. D. Levin. Improvements in steam pressure cookers and covers therefor. A cylindrical cooking pot, an outwardly projecting rim to said pot, a detachable cover for the pot and a skirt projecting downwardly from the cover and into the pot.

65063. Imperial Chemical Industries Limited. Process for the manufacture of gibberellic acid. (September 9, 1957.) Cultivating active strain of gibberella fugikuroi in nutrient medium in presence of organic substance as source of nitrogen.

65064. Imperial Chemical Industries Limited. Synthetic rubberlike materials. (September 6, 1957.) Proportions of ingredient for preparing polyesteramide are chosen so that from 8-64 mols. of dicarboxylic acid are present for each primary amino group.

65065. Sina Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A. Process for the polycondensation of diamines and dicarboxylic acids. Polycondensation of salts of dicarboxylic acid and diamines is carried out in the presence of organic liquids.

65066. The English Electric Company Limited. Improvements in and relating to electrical motor control system. (September 2, 1957.) Wherein means are provided for detecting a stationary condition of a fully energised motor and are operative to reduce power supplied to the motor.

65067. The English Electric Company Limited. Improvements in and relating to electrical control systems involving a detection of the stationery state. (September 2, 1957.) In which a control function is performed in response to an indication of a stationery state of a controlled member in the system.

65068. Metropolitan-Vickers Electrical Company Limited. Improvements relating to sequence control apparatus. (August 29, 1957.) Comprising a step by step switching device adapted to effect a fresh operation each time it moves a **predetermined number of steps**.

65069. Void.

65070. General Electric Company. Process for the fabrication of sheet-like bodies of polycrystalline silicon-iron alloy. [Addition to No. 62411.] Cooling of casting of the alloy from about 1400° C. to about 800° C. at a rate of at least 130° C. per minute.

AUGUST 27.

65071. Void.

65072. May & Baker Limited. Improvements in or relating to hypotensive compositions. (August 27, 1957.) Comprising tetrahydropyridine with an **pharmaceutical at carrier**.

65073. Indian Oxygen Limited, formerly known as The Indian Oxygen & Acetylene Company Private Limited. Removal of sulphur from blast furnace slag. [Divided out of No. 62340 and ante-dated to November 21, 1957.] **Passing molten slag as spray in downwardly flowing oxygen in a tower.**

65074. British Telecommunications Research Limited. Improvements in power feeding arrangements for repeaters in telecommunication systems. (September 9, 1957.) Arrangement provided for supplying alternating current to points each serving a group of repeater stations and at each such point rectifying equipment converts it into direct current and arrangements for **feeding it to stations of group over communication circuit.**

65075. British Telecommunications Research Limited. Improvements in or relating to automatic gain regulators for carrier current telecommunication systems. (September 17, 1957.) In which arrangements are made for causing **voltage which varies according to level of received pilot current to be compared with voltage derived from resistor traversed by current supply to repeater station fed from external point and controlled there at to have constant value.**

65076. Union Carbide Corporation. Filler material for evacuated insulation spaces. Comprising a low-conductivity component having a relatively high pressure sensitivity and large voids, and a second low-conductivity component **having a low press sensitivity disposed primarily in the voids of first component.**

65077. Pending.

65078. Pending.

65079. Pending.

65080. Pending.

65081. Pending.

65082. Void.

65083. Void.

AUGUST 28.

65084. Automatic Telephone and Electric Company Limited. Improvements in automatic and semi-automatic telephone systems employing voice frequency signals. (September 3, 1957.) For enabling the setting-up, control and **supervision of calls over inter-exchange lines.**

65085. Automatic Telephone & Electric Company Limited. Improvements in dial switches for use with coin-box telephone instruments. (September 18, 1957.) Including a cam rotatable with the finger plate and an articulated linkage **pivoted upon a stationary portion of the dial.**

65086. The Upjohn Company. New progestational steroids. Dehydrating a 5α , 17α -dihydroxy- 6β -methyl pregnane-3:2-dione with a compound selected from strong acids and alkali metal hydroxides.

65087. Void.

AUGUST 29.

65088. The Electric Storage Battery Company. Improvements in or relating to storage batteries. Having means for electrochemically removing gases comprising a porous element having an extended surface in contact with the electrolyte and also having an extended surface exposed to a gas space above the electrolyte.

65089. The British Petroleum Company Limited. New polyesters and their method of preparation. Reacting acid HooCR , CooH or anhydrides thereof of saturated alcohol RoH with molecular proportion exceeding of acid 2-methyl-2 ethyl-1:3-propanediol, when R is alkyl group with 4-18 C-atoms and R_1 is alkylene group of 2-14 C-atoms.

65090. N. V. Industriële Onderneming W. H. Braskamp. Window or ring ventilator. Characterized in that the motor in conjunction with the fan is adjustable about a horizontal transverse axis.

65091. N. V. Industriële Onderneming W. H. Braskamp. Locking and operating mechanism for a flap, shutter, window or similar device operated by means of a flexible pulling member. Characterized in that the pulling member extends through a pipe mounted adjacent to the device to be operated and adapted to rotate about its own axis.

65092. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to ceramic bodies more particularly for use as capacitor dielectrics. Consisting of a sintered product of the oxides of barium titanium, bismuth and zirconium in some definite proportions calculated in members of their atoms.

65093. Pending.

AUGUST 30.

65094. Void.

65095. Parke, Davis & Company. Salt of piperazine and 2, 4, 5-trichlorophenol and method for the production thereof. Reacting piperazine with 2:4:5-trichlorophenol.

65096. Parke, Davis & Company. Process for the production of pyrvinium salts of pamoic acid. Treating a soluble pyrvinium salt in an unreactive medium with pamoic acid or its salt.

65097. Imperial Chemical Industries Limited. Production of organo-silanes. (September 13, 1957.) Reacting siliceous material with an alkali metal halide complex of organo aluminium halide.

65098. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to textile drafting mechanism. A latch is provided in the stationary part of the drafting mechanism, the latch having detent members which can automatically come into the locking position.

SEPTEMBER 1.

65099. Void.

65100. C. A. Anvindyamanik and Lakhi Trading Company. Improvements relating to food carriers. Characterized in that each of the straps as well as the knol of the cover of the topmost receptacle is provided with a hole and slot combination.

65101. Imperial Chemical Industries Limited. Improvements in or relating to hydrocyclones and to a process utilising the same for treatment of slurries. (September 6, 1957.) Hydrocyclone having the aperture at its apex constant, and provided at its apex a tubular extension having at least one lateral perforation.

65102. Imperial Chemical Industries Limited. Films of synthetic polymer. (September 11, 1957.) A film of isolactic polypropylene is fed and drawn under tension through a region in which it is rapidly heated.

65103. Imperial Chemical Industries Limited. Synthetic polymer films. (September 11, 1957.) The film is shetchea when it is heated to a temperature in the range between 30°C . below the melting point of the polymer and 5°C . below the melting point of the polymer.

65104. Imperial Chemical Industries Limited. Process for the manufacture of new water-insoluble anthraquinone dyestuffs. (October 4, 1957.) Reacting 2-aryloxyanthraquinone with an alcohol.

65105. Badische Anilin & Soda-Fabrik Aktiengesellschaft. Production of beta-ionylidene-ethyl-triaryl phosphonium halides. Triaryl phosphine hydrohalide or tri-(low-alkyl-substituted-aryl)-phosphine hydrohalide is reacted with 5-(2':6':6'-trimethyl-cyclohexene-(1) yl-(1')-3-methyl pentadiene-(1:4)-ol-vinyl-beta-ionol.

65106. Ciba Limited. New unsaturated aliphatic amino-diols and process for their manufacture. Condensing $\text{CH}_3(\text{CH}_2)_n\text{C}=\text{CH}_2$, where n is greater than 12 with β -nitroethanol and reducing the reaction product.

65107. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Indolo-quinolizine derivatives and process for the manufacture thereof. (March 5, 1958.) Reducing 2-oxo-octahydro-indole [2, 3-x] quinolizine.

65108. Void.

65109. Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of compounds of the beta-ionylidene-ethylidene series. Reacting vinyl-beta-ionol with tri (alkyl phenyl) phosphine a proton donor, oxo compound and proton acceptor.

SEPTEMBER 2.

65110. Inventa A. G. fur Forschung und Patentverwertung. Process for the purification of crude sugar solutions. Mixing neutral crude sugar solutions with solid insoluble alpha-ferric oxide.

65111. S. Sumiya. Improvements in or relating to froth flotation system. Comprising pipes for colouring air into liquid being treated and V-shaped trough-like members so shaped and spaced from one another and the side walls of the vessel that ingredient carrying scums travelling upward through the liquid are allowed to overflow the outer fringes of the troughs and pass into their channels to break up into liquid carrying particles and used air and gas.

65112. Glazo Laboratories Limited. Improvements in or relating to antibiotics. (September 20, 1957.) Subjecting to partition chromatography using as static liquid phase a mixture of water and a water-miscible substantially polar organic solvent and as mobile phase a substantially non-polar water-immiscible organic solvent.

65113. Carrier Corporation. Purge recovery arrangement for refrigeration systems. A casing forming a chamber, a line connecting the chamber with the condenser of the refrigeration system to permit flow of non-condensable gases and entrained vapour to said chamber from the condenser.

65114. Union Carbide Corporation. Free-peeling submerged arc welding composition. Welding composition comprises 40—45 per cent. lime, 45 to 55 per cent. alumina, 2 per cent. to 15 per cent. fluorspar and up to 5 per cent. silica and incident impurities by weight.

65115. Merk & Co., Inc. Process for the production of steroids. (May 9, 1958.) Reacting 3-ethylenedioxy-17 β , 20, 20, 11-bisalkylenedioxy-16 γ -methyl-6, 11-diketo pregnane with grignard reagent and treating the product with dehydrating agent.

65116. Caterpillar Tractor Co. A control valve. Throttling notch intercepting edge of each of the lands on a spool reciprocable in a cylinder and forming a pocket wherein reaction of fluid passing through the notch will urge the spool in same direction as spring.

65117. D. Napier & Son Limited. Turbine casing. Having rings of stator blades interposed between successive rings of rotor blades, comprising a metal body of circular cross section.

65118. The British Tabulating Machine Company Limited. Improvements in or relating to signal translating apparatus. (March 5, 1956.) [Divided out of No. 59779 and ante-dated to March 2, 1957.] Comprises a plurality of means to store the repetitive cycles all characters representing, and coupling means.

65119. Siemens & Halske Aktiengesellschaft. Improvements in or relating to arrangements for correcting distortion in start-stop telecommunication systems. (April 3, 1958.) Including an input circuit for receiving the pulse train to be corrected, an output circuit for transmitting the corrected pulse train, means for periodically testing the state of the input circuit and controlling the state of the output circuit in dependence on said testing.

65120. Siemens & Halske Aktiengesellschaft. Improvements in or relating to protective systems for telecommunication lines. Including a discharge path between each line and earth, primary winding of a transformer connected in the discharge path, energising circuit of a relay connected to the secondary winding of said transformer.

65121. General Electric Company. Improvements in or relating to stator vane half ring assemblies. Forming a substantially circular flexible full ring having a substantially circular supported surface of a diameter larger than the diameter of supporting surface of casing rabbet.

65122. J. M. Huber Corporation. Process and apparatus for making carbon black. Burning hydrocarbon fuel substantially completely to form hot combustion gases substantially free of unburned fuel.

65123. Libbey-Owens-Ford Glass Company. Method and apparatus for bending glass sheets. Opposite longitudinal edges of the glass sheet are clamped during the heating of the sheet to binding temperature and while it is being initially bent is restrained from lateral movement.

65124. Ciba Limited. Process for the manufacture of coloured derivatives of polyhydroxylated substances of high molecular weight. Reacting polyhydroxylated substance of high molecular weight having chemically bound dye-stuff molecules with compound capable of reacting with hydroxyl group thereof.

65125. The Lummus Company. Process and apparatus for manufacturing mixed fertilizers. Introducing a plurality of exothermically reactive fertilizer and water into a first zone and advancing the said mixture into a second zone while maintaining a vapor seal between the two zones.

SEPTEMBER 3.

65126. R. D. Gorozpe. Extruding apparatus for preparing a quick-cooking rice product. [Divided out of No. 61694 and ante-dated to September 10, 1957.] Comprising a container having a die with extrusion orifices therein, means for forcing gelatinized particles through die orifices in rod like strips and cutting knives movable in a path transverse the axes of the orifices, the orifices having configuration conforming to size and shape of first quality grains or kernels.

65127. J. L. C. Andrianne. Rail. Medical portion of base plate of the rail is less thick than side edges of base plate.

65128. E. I. Du Pont De Nemours and Company. Polymerization of formaldehyde. In the polymerisation of formaldehyde, the steps comprising adjusting the temperature, pressure and formaldehyde concentration of an aqueous or alcoholic, or mixed aqueous-alcoholic formaldehyde solution.

65129. Tecalemit Limited. Improvements in bonding means for filter elements. Comprises first forming or bead of an adhesive substance on an edge or fold line of the filter material by applying the adhesive along the edge or fold line while the adhesive is in a liquid or plastic state, causing or allowing the bead to harden so that the filter material may be handled and manipulated into the form required for filter element.

65130. The English Electric Company Limited. Improvements in and relating to magnetic amplifier controlled systems. (September 11, 1957.) By which a number of control functions are performed sequentially as the magnitude of a controlling quantity changes.

65131. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to low-pressure mercury vapour discharge tubes. Characterised in that each electrode is surrounded by a chrome-iron disintegration screen which is insulated from it.

65132. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to variable electric impedances, more particularly variable resistances. Including structural combination of a radiation sensitive body on which at least two electrodes are arranged and a variable source of radiation for regulating the impedance.

65133. G. M. Adie. Improvements in and relating to tiles. Having ribs projecting from its rear face and extending in at least two directions there-across.

65134. G. M. Adie. Constructional elements. (September 3, 1957.) Slab, board or panel of cellular material with a protective and reinforcing skin of higher tensile strength.

65135. G. M. Adie. Constructional Elements, such as slab, panel, block or the like and plant for fabrication thereof. (September 3, 1957.) A slab, panel, block or the like comprising of series of regular closed cells the density of the material being graded so as to be maximum in the neighbourhood of one or both of its faces and a minimum in the neighbourhood of its opposite faces.

65136. G. M. Adie. Concrete and other structures. (September 3, 1957.) A cellular monolithic structure the intercellular spaces in which form a regular three-dimentional grid.

65137. Ciba Limited. Deodorizing preparations containing new pyridine carboxylic acid amides. [Divided out of No. 61377 and ante-dated to August 6, 1957.] Containing pyridine-mono-carboxylic acid tetrahydrofurfuryl amides and for salts thereof.

65138. Council of Scientific and Industrial Research. Improvements in or relating to the manufacture of garlic powder. Subjecting garlic cloves to flaking, i.e., flattening under mild pressure so that cloves are intact and not crushed in a turn or triple roll mill prior to drying and powdering the cloves.

SEPTEMBER 4.

65139. Textool Company Limited. Device to control combustion pressure in internal combustion engines. Consisting of an auxiliary piston in a cylinder head, which is pre-set in its housing to the ignition pressure of the cylinder by some resilient means.

65140. Bataafse Petroleum Maatschappij N. V. Process for the polymerization of aliphatic olefins. Characterized in that the ratio by weight of alumina to silica in the catalyst is in the range of from 15:85 to 40:60.

65141. Roskilde Medical Company Ltd., (R.M.C.) (Danske Andelsslagteriers Konservesfabrik A.m.b.A.). Method for the production of an insulin preparation for injection. Characterised in that crystalline zinc insulin containing 3 per cent. to approximately 8 per cent. chemically bound zinc is suspended in a zinc free aqueous solution suitable for injection.

65142. Ateliers Houget, Societe Anonyme Vervietoise pour la Construction de Machines. Improvements in ring spinning frames. Increasing the ratio between the spinning tension and the ballooning tension.

65143. Dr. Karl Thomae G.m.b.H. Process for the preparation of benzo-1:3-thiazinedione-2:4 compounds and pharmaceutical preparations containing the same. An aromatic O-mercapto carboxylic acid is reacted in the presence of a tertiary amine, with halofomic ester and the resulting mixed anhydride is reacted with an amine.

65144. The British Petroleum Company Limited. Improvements in or relating to hydrogenation of unsaturated gasolines. (September 6, 1957.) Passing gasoline with hydrogen over supported nickel catalyst to convert diolefins into monoolefins.

65145. Void.

SEPTEMBER 6.

65146. Carrier Corporation. Reciprocating compressor valve assembly. Including valve assembly comprising valve plate with inner circle of holes, inner and outer circles of openings, passage means for connecting inner and outer openings annular sealing surface between the circles of openings, first valve having a seating portion and deflecting portion, seating portion covering inner circle of holes, a second valve having seating portion and inner deflecting portion to cover inner circle of openings.

65147. Carrier Corporation. Reciprocating compressor. Comprising compressor block defining at least one cylinders crank shaft journaled in it, piston connected to crankshaft, reciprocable in cylinder, shell sealed to the block to define an annular space encompassing the cylinder and valve separating the space from the cylinder.

65148. Carrier Corporation. Reciprocating compressor embodying lubrication means. Comprising cylinder, piston reciprocating in it, crankcase, crankshaft journaled in bearing and connected to crankshaft, lubrication pump, passage in crankshaft communicating with pump and bearing first groove in crankshaft communicating with crankcase whereby lubricant passes from groove into crankcase.

65149. National Standard Company. Ferrous base article and method of making same. Brass layer immediately after deposition having a uniform ratio of copper of zinc throughout, and having a high degree of stability to change in its rubber adherence under adverse climatic condition.

65150. National Standard Company. Metal article designed for adherent vulcanization to rubber. Comprising, a ferrous metal base, a corrosion resistant coating on box including predominantly a metal of the group consisting of zinc, cadmium and tin, thin barrier coating on corrosion resistant coating, cobalt and antimony and a rubber adherent metallic coating.

65151. Bata Shoe Company Private Limited. Slush moulding process. (January 17, 1958.) Partially filling a tilted mould with a gelable liquid, turning said mould into a vertical position, completely filling the mould with said liquid and then heating.

SEPTEMBER 8.

65152. C. A. Anvindyamanik and Lakhi Trading Co. Improvements in or relating to food carriers. Having one strap hinged to the lowermost receptacle and having at its free end a hole or like for securing it to the handle and another strap hinged to the handle and having at its free end a hook, hole or like whereby it can be secured to a lug, bracket or like on the lowermost receptacle.

65153. Void.

65154. Void.

65155. Void.

65156. The Yale and Towne Manufacturing Company. Tubular lock. The inside knob, always free for rotation, when rotated releases outside knob if it is locked, from locking by turn button and effects retraction of latchbolt.

65157. Merck & Co. Inc. Chemical compounds and processes for preparing the same. (December 26, 1957.) Reacting an alkali metal enolate of 11-keto-21-alkoxyallyl-16 α -alkylprogesterone with a halogen.

65158. Westinghouse Brake & Signal Company Limited. Improvements in or relating to air operated governors. (September 9, 1957.) In which first and second valve means respectively comprise diaphragms which open or close the valve means in response to pressure of inlet air.

65159. The English Electric Company Limited. Improvements in and relating to electric resistors. Comprising a number of solid resistor elements arranged alternately with a number of insulating barriers and connectors between adjacent resistor elements.

65160. The English Electric Company Limited. Improvements in and relating to hydraulic turbines of the impulse (Pelton) type. (September 16, 1957.) Of the bucket wheel type, wherein a by-pass inside the turbine casing is inserted between the inlet piping and the turbine nozzle and is controlled by a discharge regulator.

65161. Stamicarbon N. V. Process of catalytically hydrogenating benzene. Hydrogenation is carried out in the presence of cyclohexanol.

65162. Void.

65163. H. Brout. Dry effervescent concentrate for soft drinks. Including acid and carbonate factor, on of which having substantial portion of at least a sparingly soluble ebullient reacting agent.

65164. Interasia Agencies. Cooling apparatus. Comprising an evaporation tank, wherein a storage tank is submerged, a cooling coil which is also submerged in the evaporation tank supplying water to the storage tank.

65165. Void.

65166. Pending.

65167. Aluminium-Industrie-Aktien-Gesellschaft. Improvement relating to devices for extracting extruded material from extrusion presses. Comprising two grippers which are hinged together and which form a continuous ring around the extruded material and are moved together to grip the extruded material by a system of pull rods, links.

SEPTEMBER 9.

65168. Bata Shoe Company Private Limited. Automatic filling device for travelling moulds. (January 17, 1958.) In combination a filling gun, a filling gun carrier, a filling gun elevator and container-carrying conveyor means.

65169. Bata Shoe Company Private Limited. Automatic insertion of linings in hollow objects. (January 17, 1958.) Comprising a pressure tube, an expansible pressing element affixed to said pressure tube.

65170. Bata Shoe Company Private Limited. Automatic mould carriers. (February 5, 1958.) Comprising a mould conveyor having track means chain drive means and mould-carrier-trolleys.

65171. Compagnie Francaise Des Matieres Colorantes. Solutions of diazo-amino derivatives and a process for their preparation. (July 22, 1958.) Comprising a diazoamino compound obtained by condensation of diazo derivative of benzenic amine with secondary amine, a coupling component, caustic alkali and a water miscible solvent.

65172. The General Electric Company Limited. Improvements in or relating to dynamo electric machines. (September 11, 1957.) Stator is mounted in an inner frame supported in an outer frame by resilient means comprising a number of beam springs arranged parallel to the machine axis.

65173. The General Electric Company Limited. Improvements in or relating to refractor members for use in lighting fittings. (September 13, 1957.) Prisms in each main set are so formed that in any width plane which intersects them light rays which would be incident on the prisms from a point light source lying on the central plane of symmetry at some point between two boundary planes perpendicular to depth axis would be deviated towards top of refractor.

65174. Titan Co. A/S. Method for desulphurizing iron. Desulphurising iron produced by reduction of ores wherein hot reaction mixture is cooled in reducing atmosphere to 1100° C. and thereafter desulphurizing agent is added, and the mixture gradually cooled in neutral atmosphere.

65175. S. A. Financiere Des Applications De L'Electricite. Improvement in reflectors for electric lamps. Comprises facets intended to distribute in space the light flux emitted by a source.

65176. Cognate with application No. 63983.

65177. H. O. Hjelt. Improvements in or relating to the production of sheet material. (September 10, 1957.) Forming a series of layers consisting of fibrous material in a binding medium; each layer being formed by the steps of coating a forming surface with the binding medium, setting up an electrostatic field between forming surface and a feed apparatus for fibrous material.

65178. Fratelli Balduini. Pin card for looms. The holder comprises a longitudinal bore, which extends through the several sockets and in which a mandrel is insertable, which locks the pins.

65179. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of tertiary benzo-quinolizine carbinols. Condensing compound of type 2-oxo-3-isobutyl-9, 10-dimethoxy-1, 2, 3, 4-6, 7, hex hydro-11 bH-benzo [a] quinolizine with organometal compound like alkali metal acetylide and hydrolysing the product.

65180. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Additive for enriching foods and feeds and process for the manufacture thereof. Comprising riboflavin phosphate salt or mixture thereof in admixture with edible powder.

65181. Interessengemeinschaft Mello-Ruder. Rudder for ships. Characterized in that the rudder body is formed with passages or ducts which are arranged one above the other.

65182. Imperial Chemical Industries Limited, A. B. Tinsley and K. Guest. Submerged-arc welding. (September 9, 1957.) Comprising a trough for containing flux having a base portion comprising one slidable member resting on an inclined surface and means for moving the slidable member on the inclined surface.

65183. Imperial Chemical Industries Limited, A. B. Tinsley and K. Guest. Submerged-arc welding. (September 9, 1957.) Welding flux applied consists of granular particles of such size as to pass a sieve having eight meshes per linear inch.

SEPTEMBER 10.

65184. Union Des Verreries Mecaniques Belges Societe Anonyme. Process and apparatus for obtaining electrically conductive coatings on the surface of objects consisting of glass or ceramic materials. Characterized in that the active product employed in the formation of the electrically conductive coating is used in the anhydrous state and is carried into contact with the object to be treated by one or more current of dry gas.

65185. Union Des Verreries Mecaniques Belges Societe Anonyme. Process for the production of electrically conductive coatings and products obtained by this process. There is projected on the surface simultaneously with tin halide a compound chosen from a group comprising molybdenum and columbium, which compound may be accompanied by fluorine compound.

65186. Union Des Verreries Mecaniques Belges Societe Anonyme. Process and apparatus for charging shaft furnaces and the like. Charge is subjected during its introduction into the furnace to a conversion into granules by agglomeration in two consecutive stages.

65187. Void.

65188. The Babcock & Wilcox Company. Improvements in or relating to Forced-flow Vapour Generators. Including a tubulous wall which is adapted to receive heat from high temperature gases and comprises groups of upright tubes.

65189. Les Usines De Melle. Process for producing highly fine alcohol from an impure dilute aqueous solution thereof. Subjecting the impure dilute alcoholic solution to a first extractive distillation, removing the impurities and subjecting the purified alcoholic solution to a second extractive distillation.

65190. Imperial Chemical Industries Limited. Process and apparatus for mixing granular materials. (September 16, 1957.) Measured amounts of materials allowed to fall through a series of screens, each of the screen series being separated from the next by an air gap and the apertures through at least one of the screens being laterally displaced relative to the aperture of a parallel screen adjacent thereto.

65191. Metropolitan-Vickers Electrical Company Limited. Improvements relating to A.C. bridges. (September 11, 1957.) An additional winding formed of one half the number of turns of the shunted winding and wound in opposite sense connected in series.

65192. Sandoz Ltd. Improvements in or relating to pyrazolidine derivatives. (May 20, 1958.) [Addition to No. 60874.] Condensing 3, 5-diketo-pyrazolidine derivative with 4-halogeno-piperidine.

65193. Sandoz Ltd. Process for the production of substituted 3:5-diketo pyrazolidines, and intermediate compounds obtained therein. (May 19, 1958.) [Addition to No. 62248.] Reacting N-alkyl-piperidyl-4-hydrazine with a cyano-acetic acid ester.

65194. Sandoz Ltd. Improvements in or relating to the production of 3, 5-diketo-pyrazolidine derivatives. (June 12, 1958.) Condensing malonic acid monodrazide with 4-piperidone, reducing the condensation product and cyclising the hydrazide obtained.

65195. Sandoz Ltd. Improvements in or relating to diphenylamines. (June 27, 1958.) [Addition to No. 59746.] Condensing secondary amine with piperidine derivative.

65196. Sandoz Ltd. Improvements in or relating to pyrazolidine derivatives. (June 18, 1958.) Reacting w(N-alkyl-piperidyl-4)-W-alkyl-acetyl hydrazine with phosgene.

65197. Void.

65198. Void.

65199. Void.

SEPTEMBER, 11.

65200. Void.

65201. L. M. Chakradeo. Smoke nuisance control device. Consisting of retort shaped canopy fitted over chimney and converging into a channel having an exhaust fan for inside it driven by electric motor outside it and a water tank placed below the channel, the channel having inverted fannel-shaped end.

65202. Void.

65203. Void.

65204. Amzel Private Limited. Improvement in or relating to steam generators. Steam generating unit consists of a system of concentric tube

elements surrounded by heat insulating lining and placed between a water box and steam chamber, annular space between two concentric tubes being connected to water box and is heated by hot gases from the furnace.

65205. Void.

65206. Void.

65207. Dr. S. Siddiqui, M. Aslam and A. Mehdi. Improvements in or relating to a composition and a process for the production of waterproof sheets. Comprising a mixture of molten bitumen, a polymerised drying or semidrying oil having a viscosity of 8—120 poises at 30° C. and a filler.

65208. N. V. De Bataafsche Petroleum Maatschappij. Improvements in or relating to processes and apparatus for the preparation of gas mixtures containing hydrogen and carbon monoxide. (September 13, 1957.) Preparation of gas mixtures containing hydrogen and carbon monoxide by partial combustion under pressure of hydrocarbon with oxygen, steam being supplied characterised in that the end wall of the reaction chamber in the immediate vicinity of the throat is cooled internally by steam.

65209. Void.

65210. International Computers and Tabulators Limited, formerly known as the British Tabulating Machine Company Limited. Improvements in or relating to printing apparatus. (September 25, 1957.) For printing characters in a plurality of character positions on a record, including means for producing relation motion between the record and the printing element.

65211. Pending.

65212. Farbenfabriken Bayer Aktiengesellschaft. Thiopyrophosphoric acid esters. (June 19, 1958.) Sulphur dichloride or a dialkylamino sulphenic acid chloride is reacted with a dialkylthiol phosphite.

65213. Farbiefabriken Bayer Aktiengesellschaft. Phosphonic acid esters. (June 23, 1958.) A phosphonic or thiophosphonic acid ester chloride is reacted with an N.N-disubstituted amino alkyl mercaptan or with an N:N-disubstituted amino alkyl alcohol.

65214. Farbenfabriken Bayer Aktiengesellschaft. Thionophosphonic acid esters. (June 30, 1958.) A thiophosphonic acid ester chloride is reacted with a substituted alkanol.

65215. Void.

65216. Libbey-Owens-Ford Glass Company. Method and apparatus for bending glass sheets. An upwardly directed force is applied to an end of the sheet to lift the end upwardly to better facilitate the depositing of the sheet on the mold, force applied to the end of the sheet is maintained normal to the sheet surface during the application.

65217. Void.

65218. Siemens & Halske Aktiengesellschaft. Automatic advancing and reversing mechanism for teleprinter ink-ribbons. (September 16, 1957.) Comprising reversing mechanism, ribbon control transmission lever and advancing mechanism, the reversing mechanism controlled by ribbon tension and co-operate to tilt the ribbon except when the direction of motion of ribbon is reversed, the lever preventing the reversing mechanism from tilting the ribbon and the reversing mechanism operable to disengage advancing mechanism for one spool and engage it for the other spool.

65219. Standard Telephones and Cables Limited. Plastic insulated telephone distribution cable. (November 15, 1957.) Having conductors insulated with a thermoplastic material to form an elongated unit of insulating material in which two or more conductors are embedded, a plurality of such units being stranded together.

65220. Societe chimique De La Grande Paroisse (Azote et Produits chimiques). Reaction furnace for the execution of exothermic reactions between gases under high pressure. Characterized by first heat-exchanger sur-

rounding the reaction chamber to provide for exchange of heat between the gases and by a second heat-exchanger surrounding the first heat exchanger to produce an exchange of heat between the gases.

65221. Miag Muhlenbau Und Industrie G.m.b.H. Process and device for the heat treatment of granulated raw material. On a travelling screening conveyor traversed by a downwardly directed gas, in which fresh granules are supplied.

SEPTEMBER 12.

65222. Edward Williams Holdings Limited. Capstan lathes. (March 13, 1958.) Having in combination with the forward end of the slide which carries the tool holder, a support adapted to co-operate with the bed of the lathe.

65223. Carrier Corporation. Reciprocating compressor. Wherein the crankcase has an opening in communication with the lubricant sump and has means placing the lubricant sump in communication with the motor chamber.

65224. Pending.

65225. Commissariat A L'Energie Atomique. Dismountable joint for metal conduits. The opposed surface portions of the two conduits to be joined together are formed in such a way as to contact each other only along a closed curve.

65226. Imperial Chemical Industries Limited. Preparation of organo-halogenosilanes. (October 4, 1957.) Reacting together tetra alkylsilane, silicon tetrachloride and ethyl aluminium dichloride.

65227. The British Drug Houses Limited. A process for the preparation of 17 α -acyloxy-6 α -methylpregn-4-en-3:20-diones. (October 2, 1957.) Oxidising 3 β -hydroxy- or 3 β -acyloxy-b-methylpregna-5:16-dien-20-one, acylating the product treating with hydrogen halide-dehalogenating resulting product and the hydrolysing and oxidising the product successively.

65228. Metropolitan-Vickers Electrical Company Limited. Improvements in tap-changing arrangements for electrical transformers and their application to electric traction equipment. (September 19, 1957.) Of the kind in which the tap winding is centre-tapped and the tap-changing means are arranged to connect variable numbers of turns of the transformer winding on each side of the centre tapping.

SEPTEMBER 13.

65229. L. M. Chakradeo, M. L. Chakradeo, P. C. Chakradeo, S. L. Chakradeo, P. L. Chakradeo, V. L. Chakradeo and U. L. Chakradeo. An improved method of reducing shocks and sounds at rail joints. Cutting of slabs of uniform thickness from each of two rail-head ends to be joined thereby making a slant edge in one of rail-head end and a complementary piece for the gap produced.

65230. Council of Scientific and Industrial Research. Improvements in or relating to hot-dip aluminising of steel. Aluminising ferrous materials using boiled linseed oil as the fluxing agent, prior to hot-dip aluminising.

65231. Council of Scientific and Industrial Research. An improved method for the production of chromium-manganese alloys by aluminothermic reaction. Reducing chromium and manganese ores or chromium oxide and manganese dioxide with aluminium powder in a refractory vessel.

65232. M. R. Lawrence. Improvements in smoking Tobacco. Which is associated in heat exchanging relationship and present at all zones of combustion a proportion of not less than five per cent. by volume of aluminium.

65233. Pending.

SEPTEMBER 15.

65234. Void.

65235. K. R. Bhandarkar. An instrument for use as an ancillary equipment for Marine Radar set and for like purposes. Comprising an internally illuminated box, a graph sheet marked in range circles and radial lines and an azimuthal calibration marking system with the bottom half sheet marked as time range graph, a centrally pivoted transparent linked parallel rules and a thin translucent perspex disc.

65236. Messrs. Knoll Aktiengesellschaft Chemische Fabriken. Process for the preparation of basic derivatives of Salicylamide forming easily water soluble salts. Condensing salicylic acid with diamine.

65237. Void.

65238. Void.

65239. J. A. CRABTREE & CO. Limited. Improvements in contacts for electric switches. (September 16, 1957.) Wherein the contact is carried on an actuating cylinder having a piston and a viscous material disposed in the closed end, to afford a liquid tight seal.

65240. J. A. Crabtree & Co. Limited. Improvements in and relating to contactor-operated motor starters. (September 16, 1957.) An armature co-operating with magnet to actuate moving contacts a removable arc shield for said contacts and retaining plate for said shield.

65241. Avesta Jernverks Aktiebolag. Improvements in methods and apparatus for the preparation of bisulfite solutions. Introducing liquid or gaseous sulphur dioxide into a reactor at superatmospheric pressure.

65242. Rohm & Haas Company. Compositions for defoliating cotton plants. A water insoluble amine or a mixture of such amines, an emulsifier or an inert powdered carrier therefor.

65243. Chas. Pfizer & Co., Inc. Therapeutic composition for the treatment of diabetes. [Divided out of No. 61648 and ante-dated to September 5, 1957.] A tablet or capsule containing N-(p-chlorobenzene.sulphonyl) N'-propylurea and a diluent is prepared.

65244. Zelzer & Co. Slide-fasteners. Cross-section of each of two profile bands presents at least one hooked carrying strip in the area of intermediate surface, the carrying strips of co-operating profile bands meeting on their insides and locking strips overlapping the carrying strips.

65245. Void.

65246. Void.

65247. Creed & Company Limited. Improvements in printing telegraph apparatus. (September 16, 1957.) Consisting of a plurality of combination members which are positioned according to a code combination either under the control of a key or according to a code combination read from a perforated tape, and means for reading the positions of the combination member to transmit and signal combination in accordance with the said positions.

65248. The George Cohen 600 Group Limited. Improvements in or relating to variable speed friction drive transmission units. (November 12, 1957.) Driving and driven elements are provided on concentric shafts, an outer tubular shaft journaled in a main end part of the casing of the unit so as to be rotatably supported solely by said end part.

65249. The George Cohen 600 Group Limited. Improvements in or relating to variable speed friction drive transmissions. (November 12, 1957.) Drive between co-axial driving elements is transmitted by frictional contact under pressure through drive-transmitting elements rotatable on axes which are angularly displaceable.

65250. The George Cohen 600 Group Limited. Improvements in or relating to machine tools. (November 12, 1957.) Mechanism for feeding cross

slide for carrying out facing operations the combination of an infinitely variable friction drive transmission unit for driving head stock mandrel at variable speed.

65251. Institut Francais Du Petrole, Des Carburants et Lubrifiants. Process for manufacturing ethylene by catalytic dehydration of ethyl alcohol. Causing a stream of ethyl alcohol to bubble into a bath of phosphoric acid acting as catalyst.

65252. Sandoz Ltd. 3-alkyl-mercapto-phenthiazine derivatives production. (July 8, 1958.) Treating tertiary amine with sulphur dihalide.

65253. Schaku Scharfenbergkupplung G.m.b.H. Coupler Head Casing for Automatic Centre Buffer Couplings. With pyramid shaped projection and corresponding recess or funnel in the buffing surface.

65254. Schaku Scharfenbergkupplung G.m.b.H. Automatic coupling for vehicles, particularly for railway vehicles. Consisting of a rotating hook-plate and a coupling link pivoted thereto.

65255. Pending.

65256. Machinery Manufacturers Corporation Limited. Improvements in the construction of revolving flat cards. Diameter of main cylinder is between 28" to 29".

65257. Rathindra Nath Ghosh Dastidar. Fatigue Alarm. Including a container with an opening for discharge of fluid from it, means for operating an alarm signal after a particular quantity of fluid has escaped, and after a further particular discharge of fluid, engine is braked and/or fuel or current supply to the same is cut off.

65258. Zavody V. I. Lenina, Narodni Podnik. An oscillating prop with rounded off extremities, for use between two machine elements. Oscillating prop with rounded off extremities engaging with bearing surface of two machine elements with resilient rings below its prop heads and prop heads accommodated in a casing fixed to one machine element and means for adjusting pressure between rounded off extremity of the prop head and corresponding bearing surface of the machine element.

65259. Zavody 9, Kvetna, Narodni Podnik. A successive gear changing device in conjunction with a selector for motor vehicles. [Addition to No. 53276.] Selecting gate formed as a portion of cylindrical jacket which by support arms and hubs is mounted on shifting shaft and to one of the hubs is attached a carrying device actuated by transmission means from a selector.

65260. Goetzewerke Friedrich Goetze Aktiengesellschaft. Improvements relating to machines for turning rings. (September 1, 1958.) A machine for turning rings to provide them with a conical outer surface, a number of rings to be turned being held together in axial alignment with spacers between them to form a packet.

SEPTEMBER 16.

65261. Void.

65262. Void.

65263. Void.

65264. The National Gas and Oil Engine Company, Limited. Improvements in or relating to internal combustion engines. (September 20, 1957.) Wherein ignition is effected by injecting gaseous fuel into the working cylinder of the engine.

65265. Void.

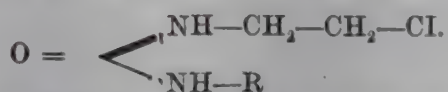
65266. Bataafsche Petroleum Maatschappij N. V. Process and apparatus for the preparation and transport of sand asphalt. Sand and water are brought into continuous motion so that a suspension of the same is formed, a quantity of bitumen emulsion is added to the same to serve as a coating composition.

65267. Bataafsche Petroleum Maatschappij. Process for preparing 1, 2, 3, 4, 7, 7-Hexachlorobicyclo (2, 2, 1)-heptadiene-2, 5 (compound). Reacting hex with acetylene and the resulting solution is compressed without increasing the temperature and then heating the solution until desired degree of conversion takes place.

65268. Westinghouse Brake & Signal Company Limited. Improvements relating to direct release triple valve device for compressed fluid braking apparatus. (September 25, 1957.) Application valve controlling communication between source of compressed fluid and brake cylinder, operable by diaphragm whose effective area exposed to brake pipe pressure is greater than that exposed to auxiliary reservoir pressure.

65269. Westinghouse brake & Signal Company Limited. Improvements Relating to Direct Release Triple valve device for compressed fluid braking apparatus. (September 25, 1957.) The application release and quick service valves are formed as resiliently seating lift valves operated by a single movable pressure sensitive element subject on its opposite sides to brake pipe pressure and auxiliary reservoir pressure.

65270. Les Laboratoires Dausse. Method for the production of N-substituted 2-amino-oxazolines and acid addition salts thereof. Wherein an aqueous suspension of a urea corresponding to the formula:



is heated substantially at the boiling pt. of water in which R represents an aliphatic, cycloaliphatic, aryl or aralkyl radical.

65271. American Cyanamid Company. 5-alkyl-2-p-halobenzene-sulfonamido-1, 3, 4-thiadiazoles and method of preparing same. (July 24, 1958.) Reacting 2-amino-5-alkyl-1, 3, 4-thiadiazole with p-halobenzene sulfonyl halide.

65272. W. C. Meng and M. L. Y. Fong. Improvements in and relating to carrier or holders for food containers. Means arranged on the outer sides of one or both of said external side members for carrying spoons, forks, knives.

65273. Imperial Chemical Industries Limited. Process and apparatus for mixing granular materials. (March 7, 1958.) Allowing measured amounts of materials to fall through series of screens each separated by an air gap from the other and apertures through one atleast of the screens laterally displaced relative to apertures of parallel screen, and subjecting granules collecting below screens to upwardly directed blast of gas to raise some of them a part of way back through series of screens.

65274. N. V. Philips' Gloeilampenfabrieken. Composition for influencing plant growth. 4-chloro-, 5-chloro-and, 5-methyl methoxybenzonitril is used as an effective constituent in the composition.

65275. Void.

65276. Dr. Ing. H. Deckel and Dipl. Ing. F. W. Deckel. Machine tool. A tool support displaceable in two feed directions and with a table displaceable in a third feed direction and gurded directly on the machine frame.

65277. Farbwerke, Hoechst Aktiengesellschaft, vormals Meister Lucius & Burning. Manufacture of solid, stable diazonium compounds. Cooling the solution of the diazonium salt and/or adding an excess of a compound containing the anion of the diazonium salt and/or adding an inorganic salt such as an alkali halide to the solution.

65278. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Manufacture of leuco sulphuric acid esters of vat dyestuffs. Leuco compound or a complex compound of the leuco compound is reacted with sulphur trioxide in presence of an organic carboxylic acid amide.

65279. Nikey Nehezipari Kulkereskedelmi Vallalat. Ejector device for the education of the smoke gases in steam locomotives. Star-shaped cross-

section of the blast pipe is disposed near the smoke-stack throat and the discharge end of said smoke-stack is conical.

SEPTEMBER 17.

65280. Bharat Pulverising Mills Private Limited. Improved floor hardening composition and method of its manufacture. Consisting (a) ferrous powder (b) a waterproofing compound (c) a rapid hardening compound, (d) a fluoro-silicate and (e) Portland cement lime powder, stone chips or like building materials.

65281. Void.

65282. Council of Scientific and Industrial Research. Improvements in or relating to crease and shrink proofing of cellulosic textiles. Reacting methylol derivative of acetylene diurea with carbohydrate ureide.

65283. Council of Scientific and Industrial Research. A process for the preparation of palatable yeast hydrolysate powder from distillery sludge. Consisting washing, autoclaving, enzymatic, hydrolysis, concentration and finally drying in vacuo to give rise to a light brown powder.

65284. Syntex S. A. New cyclopentanophenanthrene derivatives and processes for the production thereof. Reacting a C-2 unsubstituted steroid with ethyl formate followed by reaction with acid anhydride or acyl halide.

65285. Canadian Patents and Development Limited. Adjustable mountings for positioning transducers in the magnetic recording and reproducing of sound from tape. (March 5, 1957.) [Divided out of No. 60553 and ante-dated to May 20, 1957.] Adapted to be supported on a plate member and adjustable with respect thereto.

65286. Canadian Patents and Development Limited. Electronic circuits for use in the magnetic recording and reproducing of sound from tape. (March 5, 1957.) [Divided out of No. 60553 and ante-dated to May 20, 1957.] Abias frequency oscillator energizing an output circuit in the recording system.

65287. Nsu-Werke Aktiengesellschaft and F. Wankel. Seal for Rotary Mechanism. The sealing system being of the kind in which at least one end face of the rotor has thin resilient axially movable sealing elements and the apices have thin resilient radially movable sealing elements.

65288. Imperial Chemical Industries Limited. Method of lining concrete and like structures. (September 25, 1957.) Casting the self-hardenable material, in contact with organic high polymer sheet having sand/cement mixture adhering to surface thereof.

65289. Imperial Chemical Industries Limited. New thermoplastic moulding compositions and articles produced therefrom. (October 2, 1957.) Admixture of rubbery copolymer of butadiene and acrylic acid ester, polyvinyl chloride particles coated with insoluble infusible synthetic resin and uncoated similar particles.

65290. British Insulated Callender's Cables Limited. Improvements in or relating to strain insulators. (September 20, 1957.) Comprising a sleeve of malleable metal in which the end of the rod is held by a compression joint between the sleeve and the rod.

65291. A. H. Heenan. An improved pipe-coupling. Wherein a male bulbous half and a female bulbous half both characterised by a circumferential groove in their inner surface.

65292. Merck & Co., Inc. Ethers of novobiocin and process for preparing the same. (June 25, 1956.) [Divided out of No. 60080 and ante-dated to April 2, 1957.] Novobiocin is reacted with a hydrocarbon halide in the presence of silver oxide.

65293. Merck & Co., Inc. Thiadiazine type natriuretic agents. (October 1, 1956.) [Divided out of No. 60201; ante-dated to April 15, 1957.] Reacting

formic acid or a derivative thereof with a disulfamylaniline in which at least one sulfamyl group is ortho to the amino group.

65294. Union Carbide Corporation. Rechargeable dry cell. Comprising container, cathode in it, elastic spacer between them, anodic particles mixed with alkaline electrolyte, separator between anodic particles and cathode anode collector, elastic spacer on top of cathode, closure for container, expansion space and contact means passing through closure and elastic spacer to contact the anode collector.

SEPTEMBER 18.

65295. Void.

65296. D. Napier & Son Limited. Combustion turbine power units. [Addition to No. 56944.] A power turbine separate from and down stream of the compressor-driving turbine and connected to the output shaft of the power unit.

65297. Elektrokemisk A/S. Electrode holders for electric smelting furnaces. Comprising a number of contact clamps disposed around the electrode and pressed against its surface by spring means acting against the reaction of a pressure ring embracing the clamps and the electrode.

65298. The General Electric Company Limited, North British Locomotive Company Limited. Improvements in or relating to the rail vehicle bogies. (September 27, 1957.) Void after publication. In which the superstructure of a vehicle is arranged to be supported upon the bogie by means of a swing bolster with or without springs.

65299. H. K. Sanghi. Improvements in or relating to moulds for welding together of rails. Comprising a mould characterised in provision of a passage from near the top of pouring gate to the risers above the rail heads, a bottomless removal tray being provided on top of the mould.

65300. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to ferromagnetic materials, more particularly for use in micro-wave equipment. Consisting of mixed crystals of compounds having a hexagonal crystal structure similar to that of the compound $\text{Ba Fe}_{12}\text{O}_{16}$.

65301. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of providing articles with metal oxide layers and articles thus coated. In which the articles are treated, while heating in the presence of water, with the vapour of volatile hydrolysable metal compounds.

SEPTEMBER 19.

65302. Merck & Co., Inc. Process for the Preparation of sulfamylsaccharin Compounds. (October 16, 1957.) A disulfamylbenzoic acid is cyclhydrated to form a sulfamylsaccharin.

65303. Olin Mathieson Chemical Corporation. Purification of Cyanocobalamin. Steps comprising adding a phenol to an aqueous solution of vitamin B-12 activity concentrate of fermentation origin and recovering crystalline phenol-cyanocobalamin complex from the resulting solution.

65304. Instart Diesel Components Limited. Inertia starter. (September 24, 1957.) [Addition to No. 51590.] Characterized by a differential mechanism one element of which is connected to the rotary members to reset the same during an initial phase of the operation of the inertia starter.

65305. Simmonds Aerocessories Limited. Improvements relating to cutting tools. Comprising forming each cutting edge by means of a punch having a working face inclined to its direction of movement.

65306. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Improvements in bleaching by means of chlorites according to the combined padding and steaming process. Comprises adding to impregnation baths containing salts derived from strong acids and weak bases, a compound

selected from the group consisting of a salt of a strong base and a weak acid and a weakly dissociating acid.

65307. Void.

65308. Void.

65309. Void.

65310. N. V. Inland. Apparatus for filling match boxes with matches. Comprising rows of intermediate receiver means, driving means for moving them along stations comprising one filling station a station for supplying intermediate receiver means of a row with a tray and an ejecting station for removing filled trays from a row of intermediate means and a station for providing filled trays of row with a slide.

65311. J. Stone & Company (Deptford) Limited. Improvements relating to suspensions for axle-driven auxiliary apparatus disposed under vehicles. (September 24, 1957.) Comprising a linkage which is pivoted at its upper end to a frame portion of the vehicle and at its lower end pivotally supports the driven apparatus.

65312. Void.

SEPTEMBER 20.

65313. Shibdas Banerjee. A machine for winding yarn on pirns, bobbins or cheese. A main driving shaft, a cam plate loosely mounted on said shaft and carrying thread guides and means for actuating the said cam plate.

65314. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for fixing pigments on fibrous materials. [Addition to No. 60228.] Applying to the fibrous material alkali soluble resinous condensates obtained from polyvalent saturated or unsaturated acids and polyhydric alcohols and containing reactive carboxyl groups with pigments.

65315. Ciba Limited. Process for the production of colored synthetic resins. Colouring condensation product of aliphatic aldehyde and nitrogenous compound with dyestuff containing acid group and labile halogen atom and product same with acid.

65316. W. R. Grace & Co. Improvements in or relating to container closures. A plastisol composition containing as essential ingredients as vinyl resin, a plasticiser and a minor quantity of a blowing agent.

65317. C. A. V. Limited. Charging system for electric storage batteries. From a common source, comprising the combination of a pair of battery circuit, connected in parallel with a common direct or alternating current generator.

65318. Whiffen and Sons Limited. Process for the extraction of alkaloids from ipecac. (October 2, 1957.) Extracting ipecacuanha with an aqueous mineral acid, treating the aqueous extract with one or more protein digesting enzymes.

65319. Imperial Chemical Industries Limited. Process for the manufacture of new water-insoluble azo dyestuffs and their application to textile materials. (October 4, 1957.) Diazotising an aromatic or heterocyclic amine and coupling the diazo compound so obtained with a coupling component.

65320. Coal Industry (Patents) Limited. Improvements in or relating to dies-for extrusion briquetting presses. (October 10, 1957.) [Addition to No. 53133.] Subjecting materials to pressure to form partly compact masses under pressure through a passage which changes smoothly in its cross-sectional shape along length.

SEPTEMBER 22.

65321. Shushila Gupta. Improvements in or relating to making fuel pellets or briquettes from fuel dusts, e.g., from coal dust or charcoal powder and pellets or briquettes of fuel obtained thereby. Mixing coal powder with

paper pulp in the presence of water so as to obtain the requisite workability and compressing the mixture into pellets.

65322. Schering Akitengesellschaft. New water-soluble hydrocortisone compounds and a process for their manufacture. Reacting hydrocortisone with pyridine-sulphur trioxide adduct.

65323. Void.

65324. Void.

65325. Void.

65326. Void.

65327. Joseph Lucas (Industries) Limited. Commutators for dynamo electric machines or other purposes. Wherein each bar has formed integrally with its inner surface two or more projecting studs.

65328. Pending.

65329. Deering Milliken Research Corporation. Cellulosic textile materials having a pronounced configurational memory when wet and methods for preparing the same. (July 25, 1958.) [Addition to No. 60785.] Cross linking cellulosic fibers in the presence of an aqueous basic catalyst with a polyether condensation product of epichlorohydrin and a compound selected from the group consisting of ethylene, glycol, propylene glycol and glycerine.

65330. Void.

SEPTEMBER 23.

65331. Void.

65332. Void.

65333. Ministerul Industriei Petrolului si Chimiei. Improvements in or relating to operation of drill-pipe slips. Segmented pulleys mounted aside drill-pipe are firmly keyed onto a shaft mounted on a framework with the rotary table.

65334. Vereinigte Osterreichische Eisen Und Stahlwerke Aktiengesellschaft. Improvements in and relating to scarfing machines. Comprising a set of scarfing nozzles moved relative to the surface of the work.

65335. Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Process for making Pure Aluminium Oxide. Reduction is effected at a temperature higher than 2000° C. and in the presence of a fixed and controlled excess of carbon.

65336. Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Process for Eliminating Titanium from products obtained by a Carbothermic reduction process of Aluminum Oxide containing Ores. A boron compound is introduced into furnace during the carbothermic reduction process whereby titanium is converted into boro-titanium.

65337. R. Pyzel. Process and apparatus for the manufacture of Hydraulic Cement in a Fluidized Bed. Comprises initially establishing and maintaining a mass of relatively coarse cement product particles in a fluidized state in a reaction zone by upward flow or oxygen carrying gases.

65338. Imperial Chemical Industries Limited. A process for the production of patterned film from polythene. (October 4, 1957.) Extruding polythene through a slit die, the temperature at the point of extrusion being maintained below the temperature required to produce clear film.

65339. R. N. Corporation. Improvements in or relating to production of iron. Comprising a carbonaceous reducing agent under conditions to produce iron material in divided solid form containing combined or dissolved carbon, the reduction being effected at an elevated temperature.

65340. Merck & Co., Inc. Acyl hydrazines. (January 13, 1958.) Void after publication. Treating N-(3,3-diphenyl-3-hydroxypropionyl)-hydrazine with acylating agent.

65341. Pending.

65342. Minnesota Mining and Manufacturing Company. Electrolytic Electrophotographic Apparatus. Comprises in combination, means for providing strongly conductive image areas in a copy sheet, means for providing an electrolytic developer material over the copy sheet, and means for electrolytically developing an image on the copy sheet.

65343. Lt.-Col. Dr. M. Ishaq and Chaudary Karam Ilahi. Improvements in or relating to a choola using firewood or cowdung cakes. (May 19, 1958.) The outer wall of the chulla is perforated at the bottom and the inner wall is perforated all around, both the walls being sealed at the top to leave an air gap between.

65344. Lt.-Col. Dr. M. Ishaq and Chaudary Karam Ilahi. Improvements in or relating to a cooking range called "angethi" using charcoal or soft coke. (May 19, 1958.) A grate fixed in a casing having perforations below the grate and closable air inlet and removable outer casing with holes at a lower level than the holes of the inner casing.

65345. Metropolitan-Vickers Electrical Company Limited. Improvements relating to alternating current electric traction equipment. (September 24, 1957.) Comprising relay means for preventing conditioning of the traction motors for starting except when rectifiers are in operative condition.

65346. Void.

65347. Void.

65348. Hunter-Penrose Limited. Improvements in or relating to photographic colour reproduction apparatus. Comprising 3 photoelectric devices each receiving a primary colour component of original, control means including analysing cathode ray tube, a fourth photoelectric device operable in response to light from spot of light to produce colour signal for conversion into modulating signal, and a selecting screen.

65349. Hunter-Penrose Limited. Improvements in or relating to photographic colour reproduction apparatus. Including a scanning cathode ray tube operable to direct a spot of white light on to a coloured original.

65350. Cue Fastner, Inc. Improvements relating to coiling machines. (August 13, 1958.) Comprising two filaments helically wound together in opposite directions, and having two coiling heads rotating in opposite directions carrying filament guides which move through intersecting orbital paths which pass alternately around a mandrel.

65351. Void.

65352. Ciba Limited. New water soluble organic dyestuffs, their manufacture and use. In the manufacture of organic dyestuffs the radical of a halogenated unsaturated aliphatic dicarboxylic acid of low molecular weight is introduced by acylation into a water soluble organic dyestuff.

65353. VEB Entwicklungsbau Pirna. Means for deicing profile bodies such as gas turbine blades. Blades which are solid in section have at their front edge a cavity in longitudinal direction which is covered true to profile and contours.

65354. VEB Entwicklungsbau Pirna. Compressors. Blades are arranged in or directly behind a curved duct in meridian section and centrifugal forces of main flow are directed to the axis of compressor, whereby the radius of curvature R of the duct lies within zone given by relation.

$$- R_m \beta = \frac{rm}{1+\mu} \frac{tg^2 \alpha m}{\cos^2 rm}$$

65355. VEB Entwicklungsbau Pirna. A device for temperature control of flowing gaseous media in combustion chambers of gas turbines. A thin wire or wires acting as expansion body and disposed transversely to the direction of flow of gaseous medium.

65356. VEB Webstuhlbau Grossenhain. Shuttle-changing device. Lifting body and a driving shaft on which sits a loosely revolving ratchet holder with which the lifting body is connected.

65357. Indian Standards Institution. Device for presentation of inter-related data. Including an outer envelope or guide and a leaf engaged by the envelope enabling the leaf to slide therein, the leaf having marked thereon different inter-related numerical data and the envelope having a series of pairs of windows.

SEPTEMBER 24.

65358. Mrs. Shanta Talwar. An improved mouth opener for veterinary use. Converting of larger and a smaller inverted U-shaped tongs hinged at one end.

65359. Proplastex. Safety stopper for liquid carrying and the like containers. (March 20, 1958). Comprising inside the stopper body a valve adapted to allow the liquid to be poured out of the containers and to prevent the refilling of the latter.

65360. Edwin Danks and Company (Oldbury) Limited. Improvements in apparatus for controlling the operation of mechanical stockers. (October 1, 1957.) [Addition to No. 51383.] Manual control of air dampers, coupled by lever to stocker speed control, and manual control of fire door coupled to movable fulcrum of lever.

65361. Prof. Dr. Ing. A Bujan. Concrete reinforcing bar. Rolled concrete reinforcing bar with middle-deep hollows in which only fine grained concrete can enter.

65362. Ferbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for dyeing and printing textile materials of aromatic polyesters, especially polyethylene terephthalates. A dyestuff of the quinophthalone type obtainable by condensing an aromatic ortho- or peridicarboxylic acid anhydride with a compound containing a reactive methyl or methylene group.

65363. V. F. Fait. Improvements in or relating to packing boxes. Composite boards formed by stiffening hessian or like fabric with card board or like, and creased so that it could be bent along the creases to provide flanges to overlap the boards constituting the adjacent sides of the box or their flanges.

SEPTEMBER 25.

65364. Void.

65365. Joseph Lucas (Industries) Limited. Improvements in engine ignition spark distributors. The arm has formed in one of its sides a socket adapted to be placed over the spindle and having therein a key piece for engagement with a notch in the spindle.

65366. C. C. D. Processes Limited. Synthetic protein-lipid complex and a method of making the same from raw vegetable materials. Comprising the steps of introducing the vegetable material into a hammer mill in a liquid aqueous base carrier alkalizing the liquid to dissolve the specifically activated proteins whereby in the presence of the specifically activated lipids the two will combine to form a protein-liquid to the isoelectric point for the protein for precipitating the protein-lipid complex.

65367. Ciba Limited. Process for the preparation of 1, 2, 4-benzothiadiazine-1, 1-dioxides. Treating 1-amino-benzene-2: 4-disulfohalide with formaldehyde and subsequently with ammonia or amine.

65368. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Process for producing acetylene by partial combustion of hydrocarbons. Combustion is carried out a pressure at least double than atmospheric.

65369. Vossloh-Werke G.m.b.H. Improvements in or relating to screw locking devices. Cross sectional profile of spring wire in the region of apices of two convexities is inclined towards the centre of tension ring when it is in unloaded condition.

SEPTEMBER 26.

65370. American Cyanamid Company. Phosphate esters. Reacting dialkyl phosphochloridothioate with hydroxypyrazine of alkali metal salt.

65371. Union Carbide Corporation. A shaped dry Cell Cathode. Comprises finely divided particles oxidic depolarizing material finely divided carbonaceous particles, an electrolytic and an electrically conductive filamentary material inert to the electrolyte.

65372. Union Carbide Corporation. Dry Cell. Comprising a container, an alkaline electrolyte, a cathode mix comprising manganese dioxide, electrically conductive particles, an anode consisting of non-uniformly distributed anodic particles, a reservoir, a separator between the anode and cathode and a vent closure for the container.

65373. Universal Oil Products Company. Process for regenerating used alkaline reagents. Oxidising used alkaline reagent in presence of a phthalocyanine catalyst.

65374. United States Steel Corporation. Light shielding apparatus for detectors of pin holes in moving strip. A pair of carriages mounted for movement with respect to one another transversely of the path of the strip located intermediate carriages, means for urging and engaging carriages with strip.

65375. Graetz Kommanditgesellschaft. Incandescent vapour lamp, or lighting and/or heating equipment with arrangement for reducing the heating of the fuel container. [Divided out of No. 61075 and ante-dated to July 12, 1957.] Vaporiser base or riser pipe connected with the fuel tank is connected with fuel tank with interposition of an intermediate member or distance piece.

65376. K. C. T. Marshall and Lightalloys Limited. Improvements in and relating to doors, partitions and like rigid structures. (September 27, 1957.) Comprising outer sheets forming the surface of the structure between which is a rigid filling of a synthetic resinous material.

65377. J. Handley. Improvements in tape feeding mechanisms for tape perforators and the like. (September 28, 1957.) Comprising feed clamp means for operating it to grip and release tape and to move it, holding means to hold tape against reverse movement and allow of the feed clamp being returned to initial position without further movement of the tape.

65378. H. G. Jerie and International Training Centre for Aerial Survey. Analogue computer. Section templates are provided on a table with slots and/or borings or the like for the mechanical realization of tie-points ground controls and auxiliary points of the separate sections, with which slots or boring fit studs.

SEPTEMBER 27.

65379. Void.

65380. Void.

65381. Void.

65382. Void.

65383. Imperial Chemical Industries of Australia and New Zealand Limited. Improvements in or relating to explosive composition. (October 4,

1957.) Comprising at least one water soluble oxidising salt together with powdered tamarind seed.

65384. Titan Co. A/S. Method for oxidizing trivalent titanium in solid titanium oxide containing materials. Oxidising trivalent titanium in solid titanium oxide containing materials by heating with oxygen containing gas.

65385. The British Oxygen Company Limited. Refining or purifying of molten ferrous material. (October 21, 1957.) Pouring molten material and allowing it to fall through a reaction space in contact with a stream of an oxidising gas flowing in the same direction.

SEPTEMBER 29.

65386. H. Alberts and E. W. Bernt. Improvements in or relating to slide fasteners. Projecting teeth like clasping elements are made from a long length of tube of any thermoplastic material or metal having adequate flexibility, on one side of the tube teeth are cut on the other side forms base of said elements.

65387. D. Levin. Improvements in cooking pots. (October 9, 1957.) Having a bottom cover comprising a composite disc made up of sheet insulating material encased between the sheets of metal.

65388. Union Carbide Corporation. Swellable anode-electrolyte system and method of producing the same. Comprises a porous annulus of finely divided anodic metal permeated with viscous electrolyte.

65389. Union Carbide Corporation. Cement bonded cathodes for dry cells. Comprises finely divided carbonaceous particles and finely divided oxidic depolarizing particles united together by an inorganic cement.

65390. Farbenfabriken Bayer Aktiengesellschaft. Process for Dyeing and Printing Textile Materials Containing Hydroxyl Groups. (July 14, 1958.) Hydroxyl groups which comprises applying to these materials dyestuff free from sulphonic acid and carboxylic acid.

65391. Fuller Company. Fluidizing conveying apparatus. Conveying a finely divided material in substantially dry condition including a casing having means for admitting a material there into and a material outlet and comprising an upper conduit section and plenum chamber there-beneath.

65392. Daimler-Benz Aktiengesellschaft. Improvements relating to motor omnibuses. (August 20, 1958.) Induction passage extending from rear to front of the vehicle is disposed on its roof preferably along central longitudinal axis and having an interference tube near the engine.

65393. Rheinstahl Siegener Eisenbahnbedarf Aktiengesellschaft. Improved railroad freight car, more especially a covered freight car. [Addition to No. 61650.] Having sliding panels or doors which are in a common plane in the closed position, the post and girders defining the zones of the sliding panels form, in the plane of the side wall, frame constructions which produce the support system of the side walls and form transverse frames in the transverse plane by means of upper and lower transverse girders.

65394. Standard Telephones and Cables Limited. Improvements in or relating to regulated rectifier power supply equipment. (February 28, 1958.) Comprising magnetic comparator to compare current output of unit into a load circuit in order to feed back an output level correcting signal into regulating equipment and a current sensitive network responsive to load current below as predetermined level to return a signal to the comparator.

65395. Void.

SEPTEMBER 30.

65396. Smith Kline & French Laboratories Limited. Improvements in or relating to the manufacture of hydantoin derivatives. (October 23, 1957.)

Condensing a semi-carbazone with a monohalogen substituted acetic acid ester in an alkaline condensation catalyst.

65397. Imperial Chemical Industries Limited. Process for the manufacture of pyrimidine derivatives. (October 28, 1957.) Oxidising corresponding methylol derivative.

65398. Houilleres Du Bassin De Lorraine. Method of making coke, more particularly metallurgical coke, from coals having a high percentage of volatile matter. Adding coke breeze and tar pitch to a mixture of base wals to form a coke paste and carbonising the said paste.

65399. Pending.

65400. Pending.

65401. The British Drug Houses Limited. A process for the preparation of 3 β -acyloxy-6-methyl-25D-spirost-5-ene. (October 9, 1957.) Treating 3 β -hydroxy or 3-acyloxy-25D-spirost-5-ene with organic par acid, reacting the product with methyl magnesium halide, reacylating and dehydrating the product.

65402. Unilever Limited. Process for hydrogenating unsaturated fatty acids and their esters. (October 15, 1957.) Hydrogenation is carried out in the vapour phase with a fluidised catalyst and at a pressure substantially less than atmospheric pressure.

65403. Sandoz Ltd. Process for the production of 3, 5-diketo-pyrazolidine derivatives. (April 25, 1958.) [Addition to No. 62248.] Reacting W-(N-methyl-piperidyl-4)-W¹-isopropyl hydrazine with dialkyl ester of substituted malonic acid.

65404. Void.

65405. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs insoluble in water and process for their manufacture. Coupling diazonium compound of orthoaminoazo compound with arylamide of 2, 3-hydroxynaphthoic acid.

65406. W. Walker. Improvements in or relating to photographic developers. Boiling mixture of 140 to 160 gms. of sodium sulphite, 20 to 2½ gms of metol and 1000 c.c. of water.

65407. UCLAF. Improvements relating to the purification of vitamin B₁₂. Adding to an aqueous solution of vitamin B₁₂ an amount of a phenol less than the solubility limit of said phenol in said vitamin B₁₂ solution.

65408. R. Armstrong. Improvements in or relating to electric switches. Provided with two separate mechanisms whereby reciprocating blades could be moved for making or breaking any electric circuit controlled by the switch.

65409. Ciba Limited. Process for rendering wool resistant to shrinkage and peltng. Wool is treated with an acid aqueous solution containing an N-chlorinated 1:3:5-triazine free from methylol groups, such as tetrachloromelamine or especially trichloro-isocyanuric acid.

65410. Void.

65411. A. A. Burgeni. Absorbent product such as a dressing or the like. Comprising an absorbent multiply pad consisting of a plurality of superimposed layers porous fibrous material and a wrapper enclosing the same.

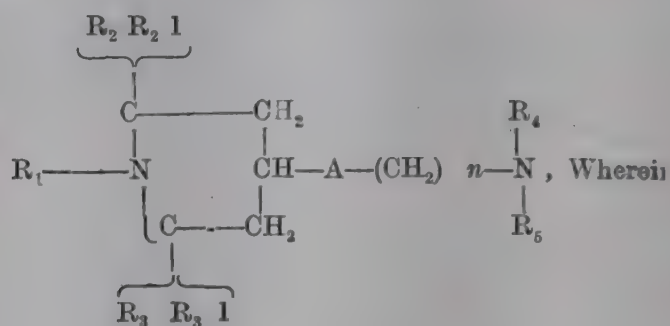
65412. A. A. Burgeni. Absorbent fibrous product. Comprising loosely compacted fibrous bat having low cohesive strength and integral therewith and formed in situ a fibrous layer having a relatively high cohesive strength.

OCTOBER 1.

65413. Void.

65414. May & Baker Limited. Improvements in or relating to pharmaceutical compositions containing aminoalkyl piperidines. (October 1, 1957.) Pharmaceutical composition comprising at least one aminoalkyl piperidine deri-

vative of the general formula R_1 represents hydrogen atom or a lower alkyl (group) R_2 , $R_2 1$, R_3 , $R_3 1$ represent alkyl groups, R_4 and R_5 are either lower alkyl groups or together with nitrogen atom to which they are attached, A represents a grouping selected from -O-, -NH- and -CH₂-, n represents an integer from 1 to 6.



65415. E. I. du Pont de Nemours and Company. Improvements in or relating to nitrogen-containing polymers. Process for preparing comprises reacting hydrazine, or a substituted hydrazine in which each nitrogen atom carries at least one hydrogen atom and at most one hydrocarbon substituent, with at least one macrointermediate being a homopolymer or copolymer.

65416. J. R. Geigy A.-G. Process for the production of monoazo dyestuffs the monoazo dyestuffs produced thereby and the dyeing obtained therewith. Coupling diazotised 2-aminobenzene-1-sulphonyl compound with 1-aryl-5-aminopyrazole.

65417. Houilleres Du Bassin De Lorraine. Method of making coke, more particularly metallurgical coke, from coals having a high percentage of volatile matter and a high swelling index. Adding to the coal to be carbonised, either coke breeze or semi-coke or a mixture of these and carbonising the thus obtained coking paste.

65418. The Singer Manufacturing Company. Shuttle mechanism for sewing machines. Comprising a beak, a heel, a back wall with a curved edge and a bobbin-cavity side wall having one of its boundaries co-extensive with said curved edge.

65419. The Goodyear Tire & Rubber Company. Electrical Temperature control system. Comprises a current source switch means arranged to connect the current source to the heating element, means to derive from the source a first potential proportional to the voltage of the source, means cooperating with the heating element to derive from the source a second potential proportional to the current.

65420. Ciba Limited. New 1-tertiary aminoalkyl-2-phenylamino-benzimidazoles and process for their manufacture. Reacting 2-phenylamino-benzimidazole with a reactive ester of an alcohol.

65421. Void.

65422. N. V. Philips' Gloeilampenfabriken. Improvements in or relating to the production of Optically Active 1-(3', 4'-Dihydroxyphenyl)-2-Amino Ethanols. Reacting 1-1-(3', 4'-dihydroxyphenyl)-2-aminoethanol-1 with a ketone.

65423. T. Piotrowski. Improved method and apparatus for manufacturing by expansion molding articles in thermo-plastic material. Plastic material is injected over a core which serves to form a pre-shaped blank and as the source from which the plastic material will finally be blown into an expansion chamber.

OCTOBER 3.

65424. Void.

65425. Pending.

65426. Computer Developments Limited. Improvements in or relating to switching matrices. (October 9, 1957.) Plurality of input and output conductors and plurality of solid non-linear resistance elements a load impedance for each output conductor and an input voltage source for selectively energising each input conductor.

65427. Merck & Co., Inc. Oxidation of Steroids. (December 30, 1957.) Treating (nuclear secondary hydroxy groups of) hydroxy steroid with saturated nucleus with chlorine in acidic organic medium.

65428. Food Machinery and Chemical Corporation. Production of Hydrogen Peroxide by Anthraquinone Process. Hydrogenating in presence of catalyst comprising palladium on alkaline earth metal carbonate as carrier.

65429. Void.

65430. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Method and apparatus for the production of resin-reinforced fibrous materials. Which comprises a support for a layer of fibrous material, means for impregnating said material with a curable resin.

OCTOBER 4.

65431. The British Drug Houses Limited. Manufacture of N-monosubstituted piperazines. (October 11, 1957.) Reacting monopiperazinium salt with alkylating or aralkylating agent of upto 6C-atoms in presence of organic solvent.

65432. Void.

65433. Void.

65434. Void.

65435. P. Hingarh. Improvements in or relating to umbrellas. At the handle end of umbrella stick is fitted a spring loaded flanged sleeve connected through hollow of the stick to the catch which supports slidable frame folding sleeve in the umbrella open position so that by moving the flanged sleeve along the stick, the catch is released.

65436. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. A process for the manufacture of acetaldehyde acetic acid or a mixture thereof. Wherein ethylene is contacted at an elevated temperature in a neutral to acid medium with oxygen of an oxygen containing gas in the presence of water and an inorganic redox system.

65437. Foundry Services International Limited. Improvements in or relating to the treatment of molten metals and degassing tablet for use in such treatment. (October 31, 1957.) A degassing tablet for molten metal comprising a degassing material and a fluoride which are so compounded that they are not spontaneously disintegrated in the molten metal.

65438. K. Peter. Apparatus for manufacture of Rope. Comprising mechanical means for drawing the fibres through a rotatable, tubular, main twisting or spinning device having yieldable means for gripping the fibres.

OCTOBER 6.

65439. Void.

65440. Council of Scientific and Industrial Research. A process for the extraction of wax from sisal waste. Separating the dry waste into "most Cuticle" part and the rest powdering the cuticle part, extracting powdered mass with hot organic solvents and obtaining wax therefrom by distillation.

65441. Bright Brothers Private Limited. Improvements in or relating to Rolling and Sliding Shutters. Comprising a plurality of channel shaped sections, each section having one of its flanges enlarged and rounded at its extremity along its entire length and the other flange shaped to provide a groove or through at its extremity along its whole length.

65442. Arnold, Hoffman & Co. Incorporated. Process for the manufacture of Novel Quaternary Ammonium Salts. (September 26, 1958.) Reacting Polyamine NH_2 (ANH_2) p AHN_2 with alkalene oxide, a quaternising the reaction product A being alkyl radical of 2-6 carbon atoms a p is 0.3.

65443. Continental Oil Company. Manufacture of Graphitizable Petroleum Coke. Coking a mixed hydrocarbon charge stock wherein the mixed charge stock comprises a highly aromatic thermal tar and refinery residue.

65444. Stauffer Chemical Company. Improvements in or relating to thio-carbamate-based phytocidal compositions. [Addition to No. 61276.] A phytocidal composition containing as its essential ingredient a compound of the for-

mula $\text{R}_1-\text{S}-\overset{\text{R}_2}{\underset{\text{IR}_2}{\text{C}}}-\text{N}$ where R_1 is a methallyl, methylmercaptomethyl, crotyl lower chloroalkyl, 3-chloro-2-butenyl, propargyl- $\text{CH}=\text{C}-\text{CM}-$ radical, x or y represent-



ing a halogen atom.

65445. Void.

65446. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Method of improving the mechanical characteristics of articles formed from linear, crystallisable high molecular weight alpha-olefin polymers. Subjecting the shaped article to compression by passing through rollers.

OCTOBER 7.

65447. Mrs. Madhuri Mitra. Plaster of paris bandage or casts for surgical purposes. Comprising a fabric coated with a slurry composition comprising plaster of paris, a synthetic resin which is non-soluble and non-swellable in water, a plasticiser and a wetting agent for the resin, an anhydrous solvent and potash alum.

65448. Commissariat A. L'Energie Atomique. A method of manufacture of an aluminium alloy, and the alloy obtained by this process. Making an alloy of aluminium and of at least one added metal which is either iron and/or nickel, alloyed granules being formed of aluminium and of the added metal.

65449. Mineral Processing Corporation. Separation of fine sized solids. Characterized by a gravity gradient and a viscosity gradient, both gradient decreasing from the bottom to the top of bath in such a manner as to establish a separating zone of low specific gravity and low viscosity adjacent the top of bath.

65450. Union Carbide Corporation. Anti-corrosion, amino-organosilicon-epoxy coating compositions. Comprising a mixture of an amino-organosilicon compound wherein at least one silicon atom is attached to oxygen, an epoxy compound and a volatile organic diluent.

65451. E. K. Cole Limited. Improvements in or relating to the amounting of inductance coil assemblies. Coil former is secured to the amounting plate by means of a plug inserted into the former through a portion projecting from the plate so as to expand the material of the former.

65452. Pending.

65453. Pending.

65454. J. Inance. Hand tufted and like Carpets. Each tuft associated with three warp threads, the tuft being looped around two of them, while the third serves to reinforce the fabric.

65455. N. V. Phillips' Gloeilampenfabrieken. Improvements in or relating to hybrid systems for use in radiotelephony communications. In which these are connected to the two-wire end of the one hand a transmitter branch including a relay acting as a transmitter suppressor and on the other hand a receiver branch including a relay acting as a receiver suppressor, these suppressors being controlled jointly and oppositely by a control voltage generator.

65456. Ciba Limited. New complex metal compounds of monoazo-dye-stuffs, and their manufacture and use. Condensing a triazine with complex heavy metal compound of a monoazo dyestuff and a hydroxy compound or ammonia.

65457. Ciba Limited. Rapidly hardenable compositions of epoxy resins and polyamide resins. Comprises an epoxide compound, a polyamide resin of a di- or trimerised unsaturated fatty acid with an aliphatic polyamine and a hardening accelerator.

65458. Void.

65459. Cognate with Application No. 64889.

65460. Pending.

OCTOBER 8.

65461. Bataafse Petroleum Maatschappij, N. V. Process for the production of methanerich gas mixtures. Providing a mixture consisting mainly or entirely of hydrogen and carbon monoxide reacting said mixture at a temperature in the range 650 to 1100° C. with a hydrocarbon fraction having a polycyclic aromatics content less than 5 per cent. by weight.

65462. A. K. Velan. Bonnetless gate valve device. (October 8, 1957.) Provided with guide means within internal chamber for preventing rotation, but permitting sliding closer movement of valve gate, the guides being removable upon removal of a closure member secured to valve body and giving access through an opening in valve body to the chamber, and a rotary coupling between valve gate and valve stem.

65463. Merck & Co., Inc. Process for removing nicotinic acid from a solution of nicotinamide and nicotinic acid. (February 5, 1958.) Comprises contacting solution with a particulate anion exchange resin, adsorbing nicotinic acid on resin and recovering an effluent solution of nicotinamide.

65464. British Telecommunications Research Limited. Improvements in equipment for comparing frequencies. (October 10, 1957.) Comprising pulse generators, an AND gate and a detector.

65465. C. A. V. Limited. Liquid fuel torches. (October 22, 1957.) Comprising a hollow cylindrical body part which is open at one end has formed in it air admission apertures at a distance from the said end.

65466. Boving and Co. Limited. Improvements in butterfly valves. (October 23, 1957.) Having a valve disc pivoted about a transverse axis substantially parallel to but offset from the plane of a sealing periphery.

65467. Ciba Limited. Process for the manufacture of new dyestuffs of the anthraquinone series. Reacting 1-amino-2-bromo-4-hydroxyanthraquinone with a phenol in the presence of an alkali especially an alkali hydroxide.

65468. Shivaji Works Limited. Improvements in or relating to pipe vices. Comprising a sliding jaw capable not only of an up or down movement in a vertical direction but of a swiveled movement in a vertical movement in a vertical plane around an axis which is parallel to the object being gripped.

65469. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of polyene aldehydes. (August 28, 1958.) Reducing 19-[2, 6, 6-trimethyl-cyclohexen-(1)-yl]-4, 8, 13, 17-tetramethyl-nonadeca-octaen-[2, 4, 6, 8, 12, 14, 16, 18]-yn-(10)-al-(1).

65470. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of a polyene aldehyde. (August 28, 1958.) Condensing acetylene with 8-[2, 6, 6-trimethylcyclohexen-(1)yl]-2, 6-dimethyl-octa-frien-(2, 4, 6)al-(1) and subsequently condensing the product with 3-acyloxy-2-methyl-propen-(2)-al-(1).

65471. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of bisquaternary amines. Reacting mono-tertiary amine compound with x, w-dihaloalkane.

65472. N. V. Philips, Gloeilampenfabriken. Improvements in or relating to methods of producing new, substituted, secondary or tertiary amines, containing an alkoxy-benzoyl-oxy group. Hydrogenating a mixture of 5-keto-hexanol-2 and butylamine.

65473. Bhupendra Nath Banerjee and Benoyendra Narayan Roy. Improvements in or relating to plunger pumps. A lever pivotally connected at one end to a disc, the other end being fixed to one of a series of points in the disc and the lever is connected to plunger rod eccentrically with respect to the disc, and the disc being driven by the output shaft of a gear box whose input shaft is driven by animals or man.

OCTOBER 9.

65474. The Pruthivi Trust. Improvement in and relating to antiseptic. Thymol is dissolved in carbolic acid and/or cresylic acid and beta naphthol dissolved in acetone is added to the sulphated fatty oil and the mixture is clarified by adding caustic soda.

65475. R. Doernach. A method of making a self supporting shell shaped roof and wall structure. Preparing an elastic deformable flat plate, bending the plate into desired shape, and securing the formed structure in its respective shape.

65476. W. B. Poludniak. Sealing washer for corrugated iron roofs. (October 9, 1957.) Washer formed of a small inverted metal dish filled with bituminous mixture.

OCTOBER 10.

65477. Farbenfabriken Bayer Aktiengesellschaft. Bis-Triazinylamino-Stilbene compounds. (July 25, 1958.) Reacting 4, 4'-bis-[2, 4-dichloro-1, 3, 5-triazinyl-(6)-amino]-stilbene-2, 2'-disulphonic acid with metanilic acid and diethanolamine.

65478. Farbenfabriken Bayer Aktiengesellschaft. Copper-containing Disazo Dyestuffs, process for the manufacture thereof and materials Dyed therewith. (August 7, 1958.) Coupling tetrazotized, 3, 3'-dialkoxy-3, 3'-dihydroxy-or 3, 3'-dichloro-4, 4'-diamino-diphenyl with 1-acetylamino-or 1-benzoylamino-8-hydroxynaphthalene, 3-6-or 4, 6-disulphonic acid and dihydroxynaphthalene-monosulphonic acid and by converting the diazodyestuff thus obtained into copper complex compound.

65479. Farbenfabrikenbayer Aktiengesellschaft. Copper containing Disazo Dyestuffs, process for the manufacture thereof and materials Dyed therewith. (August 7, 1958.) Coupling tetrazotised 3, 3'-dialkoxy-3, 3'-dihydroxy-or 3, 3'-dichloro-4, 4'-diamino diphenyl with 1-hydroxy-8-alkoxynaphthalene-3, 6-disulphonic acid and monohydroxynaphthalene-mono-sulphonic acid, and by converting the diazo dyestuff into copper complex compound.

65480. Food Machinery and Chemical Corporation. Production of persulfates. Reacting ammonium persulfate and hydroxide or water-soluble carbonate of alkali metal or alkaline earth metal.

65481. Harrison McGregor & Guest Limited. Improvements in or relating to reversible discs ploughs. (October 11, 1957.) Comprising a frame, an arm pivotally mounted at one end about a vertical axis on said frame.

OCTOBER 11.

65482. Void.

65483. J. Hantych and Jyoti Prasad Mukherji. Improvements in or relating to hydraulic couplings. In which the driving and the driven member are so designed that their opposed faces consist of spherical planes and centres coincide with the centre of swing.

65484. Void.

65485. P. E. Bessiere. Improvements in self-regulating reciprocating pumps, in particular for Fuel injection into Engines. Characterized in that the driving means are hydraulic and comprise a pulsating source of hydraulic fluid which is distinct from the main piston and main cylinder assembly.

OCTOBER 13.

65486. Mrs. Elvire Saldanha Fernandez. Cathodic protection of internal combustion engines against wear. Comprising a modified drain plug to which a magnesium alloy electrode is attached forming a combination that screws in and fits into drain outlet of the crankcase or oil sump.

- 65487. Automatic Telephone & Electric Company Limited. Improvements in switching circuits employing transistors. (October 16, 1957.) An input in the form of a potential change is applied directly and through a resistance/capacity differentiating network to a first and second electrode respectively of a junction transistor.

65488. N. V. De Bataafsche Petroleum Maatschappij. Safety device for gas cylinders. Characterized by a blind tube made of resilient material which is adapted at its open end to fit to the supply of valve of the gas cylinder and provided with a splayed slot on communication with the inner passage of the tube.

65489. Henry Hope and Sons Limited. Window Frames. (October 24, 1957.) Each of two opposite sides to which pivots are attached is constructed from three bars, one forming a side of fixed frame another the adjacent side of movable frame and the third of two parts extending from opposite sides of associated pivot, one part secured to said side of fixed frame and the other to the said side of the movable frame.

65490. Benzol Products Company, and McLaughlin Gormley King Company. Method of preparing Novel Dimethylbenzyl Chrysanthemumates. Esterifying chrysanthemumic acid or its ester of chloride with 2, 4-or 3, 4-dimethylbenzyl alcohol.

65491. Stamicarbon N. V. Process of preparing a fertilizer. By decomposition of crude phosphate with nitric acid and partial neutralisation of the reaction mixture with a gas containing ammonia including the step of continuously measuring the pH value of the diluted suspension and controlling the gas feed in the neutraliser.

65492. Chicago Pneumatic Tool Company. Improvements in or relating to wrench-socket retainers for rotary power-operated tools. Wrench-socket retainer provided for rotary power operated tools comprising a shank having a portion of non-circular cross-section and having an axial bore open at the front extremity of the shank, a socket member having a non-circular recess detachably fitting the corresponding portion of the shank to form a driving connection therebetween.

65493. Pending.

65494. Pending.

65495. The Mond Nickel Company Limited. Alloy for high temperature service. (April 29, 1958.) Turbine blade made of an alloy comprising from 6-10 per cent. molybdenum, from 10-35 per cent. chromium from 4-8 per cent. aluminium, from .1-3 per cent. titanium, from 0.1 per cent. to 5 per cent. niobium, from .001 to 0.1 per cent. boron, from 0 to 25 per cent. iron from 0 to 2 per cent. zirconium, the balance being all nickel.

65496. Edit Dell-Ing. Renato Piana & C.S.A.S. Improvements relating to roof structures. Comprising a supporting framework, roof-covering members of synthetic plastic arranged side by side parallel with one another on the frame.

65497. The Metal Box Company Limited. Improvements in or relating to cartons and carton blanks. (October 15, 1957.) Which when set-up to form

a carton has portions of one side thereof overlying portions of the opposite side to permit heat-sealing of the overlying portions one to the other.

OCTOBER 14.

65498. Union Carbide Corporation. Deferred action cell separators and method of manufacturing the same. Comprises depositing onto the separators an aqueous solution containing a substance releasing potassium, carbonate or hydroxyl ions, and vacuum-drying such separators.

65499. Westinghouse Brake & Signal Company Limited. Improvements relating to driver's brake valve devices for vacuum braking apparatus. (October 17, 1957.) Comprising handle for altering the setting of device, press button switches cam means movable depending upon setting of the device and means for operating high rate evacuation switch.

65500. Westinghouse Brake & Signal Company Limited. Improvements relating to plug valves, more especially for use in driver's brake valves of railway vehicle vacuum braking apparatus. (October 16, 1957.) Comprising a valve body with inlet and outlet ports opening into its interior, resilient seating washer bounding one port and a swivelling closure member having a face in the shape of spherical cap cooperating with seating washer and which derives its support in the manner of a canti-lever solely from a bearing or bearings disposed to one side only of the interior of the body.

65501. Chas. Pfizer & Co., Inc. Manufacture of capsules. Blending gelatin a plasticizer and preferably 5 to 15 per cent. of water by weight of said gelatin, melting the resulting blend extruding said blend in the form of a continuous tube in a plastic state.

65502. Imperial Chemical Industries Limited. New colouration process (October 23, 1957.) Comprises applying to the material an alkali, a dyestuff containing a reactive amino group, and a water-insoluble, S-triazine containing two halogen atoms attached to the triazine ring and in a subsequent step heating or steaming the textile material.

65503. Imperial Chemical Industries Limited. New water soluble colouring matters. (November 1, 1957.) Process for the manufacture comprising treating a dyestuff containing at least 2 and preferably 4 sulphonchloride groups with a primary or secondary amine.

65504. Vereinigte Österreichische Eisen-und Stahlwerke Aktiengesellschaft. Conveying installation for teeming halls and the like. A conveying installation having traversing means which comprises traversing cars which are moved in trenches and having loading platform carrying track sections which connect the rails of a longitudinal truck in the end positions of the traversing movement

65505. Berth, Levi & Co. Inc. Preparation of natural Animal Casings. (October 10, 1958.) Drawing a wet casing over a foraminous tube and introducing a stream of gas into the interior of the tube at a rate sufficient to maintain a flow of gas over said casing.

65506. J. Craven. Improvements in printers' inking rollers. A preformed roller body moulded from polyurethane in a mould of the dimension required for the finished roller.

65507. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brunning. Azo-dyestuffs insoluble in water and process for their manufacture. [Addition to No. 60973.] 2-amino-4:5-dialkoxy-2'-phenyl sulfonyl-4'-nitro-1:1'-azobenze is coupled with an arylamide of 2:3-hydroxynaphthoic acid.

65508. D. M. King. Improvements in or relating to chains for conveyor. (October 15, 1957.) Comprising a metal blank bent to a substantially U-shape such that limbs of finished link will incorporate recesses adapted to receive and locate supporting elements of a guide wheel and rolls assembly.

65509. D. M. King. Improvements in or relating to a pusher mechanism. (October 16, 1957.) Comprising a flexible strip of arcuate sections and means for projecting and retracting the same.

65510. Dowty Hydraulic Units Limited. Improvements in coupling devices for railway vehicles. (January 10, 1958.) A drawbar carrying a pivotal joint to which a coupler can be connected for movement about a horizontal transverse axis and a vertical axis.

65511. Dowty Hydraulic Units Limited. Improvements in coupling devices for railway vehicles. (October 15, 1957.) Two latches are mutually perpendicular and each is held engaged by the locking member on the other coupler.

65512. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of polyene aldehydes. (August 28, 1958.) Comprising acetalising an aldehyde, condensing the resulting acetal either with a propen-(1)-yl alkyl ether or with a vinyl alkyl ether and treating the resulting condensation product with an acidic agent.

65513. J. Zimmer. A device for use in the manufacture and treatment of sheet materials. (December 31, 1957.) Co-operating pressure applying parts at least one of which being a rotatable roller and at least one of which being a magnet or embodies magnet and the other part of magnetic material so that the parts are attracted one to the other.

65514. J. P. Mukherji and Walchandnagar Industries Limited. Adjustable fluid flow control device. Receptacle divided into two main compartments by a fixed vertical partition allowing fluid supplying to the compartment at the feed end of the device to overflow into the compartment at the delivery end.

65515. Ciba Limited. Manufacture of 20-amino-3- β -hydroxy-allopregnane 3-glycosides. A pregnane derivative is reacted with a reactive derivative of a mono- or di- saccharide, or an amino-methylene group is introduced in the 3-glycoside of a pregnane derivative or the double bond in 5, 6 position of a 3 glycoside of a pregnane compound is reduced.

65516. Ciba Limited. Pharmaceutical compositions. (November 15, 1957.) Containing active substance 19497-C and pharmaceutical carrier.

65517. Veb Entwicklungsbau Pirna. Means for extension of the working speed range of axial compressors of high compression ratio. Angular position of the rotor guide vanes and stator blades in the consecutive stages and also of the blades of the entry guide vanes ring is changeable.

65518. Refrigeration and Appliances Co. Private Ltd. A pilot lamp device for use with electric water heaters. Pilot lamp with terminals removably fitted by providing grooves in housing wall engaged by plates with terminals, and means for removably fitting the device comprising saddle shaped clip with two spring legs so disposed that inner legs hold housing while outer legs slip into a recess formed for the housing in water heater body.

65519. Refrigeration and Appliances Co. Private Ltd. Improvements in or relating to electric lamps. Shape and dimensions of base with respect to the shape and dimensions of the shade being such that after the bulb is removed, the base fits partly into the shade.

OCTOBER 15.

65520. Void.

65521. Socony Mobil Oil Company, Inc. Grease composition and method of preparation thereof. Comprising an oleaginous vehicle and a mixture of alkaline earth metal soaps and salts therewith, the alkaline earth metals being selected from the group consisting of calcium and barium, not more than about fifteen per cent. of barium on a chemical equivalent basis, the mixture of soaps being present in a grease forming quantity.

65522. Merck & Co. Inc. Steroid Production. (February 20, 1958) Reacting 21-hydroxy-4, 16-pregnadiene-3, 11, 20, trione 21-alkyl ether with diazomethane and heating the product.

65523. Imperial Chemical Industries Limited. Anthradipyridazones. (December 5, 1956.) [Divided out of No. 62388 and anti-dated to November 26, 1957.] A hydrazine is reacted with an anthra-1':9'-(N)-pyridazone.

65524. G. Dirks. Improvements relating to data transfer apparatus. (November 6, 1957.) Including means for sensing characters, a cyclic access storage device, data transfer means and timing means.

65525 D. Napier & Son Limited. Blades and blade mounting for turbines and axial flow compressors. [Divided out of No. 62153 and ante-dated to October 31, 1957.] Blade mounting provided with a ring of substantially axial grooves, blades made of sheet metal manipulated into hollow aerofoil form with two root tongues and platform members inserted between adjacent blades, a tubular ferrule extend transversely through each blade in a transition zone between the aerofoil zone and the root zone, and at least one lacing wire passes through these ferrules and the platform members.

65526. K. Eickmann. Sealing arrangement between two relatively movable members in Hydraulic and Pneumatic Machines, especially Gas and Liquid Pumps, and Motors, Turbines, Internal Combustion Engines, Hydraulic Torque Converters and the like. A least one sealing member is mounted on one of the relatively movable members so as to be movable in response to decentered movements of said members and relative to a complementary sealing member whereby to maintain a pressure tight seal.

65527. R. Schmidt. Improvements in or relating to shuttles for looms. The pivotal spindle is retained in the weaving position by a spring arranged in shuttle head, the spindlehead being recessed and the retaining spring being adapted to engage the surface of the recess.

65528. Consortium Fur Elektrochemische Industrie G.M.B.H. Process for the manufacture of organic carbonyl compounds like aldehydes and ketones. (June 27, 1958.) Reacting olifinically unsaturated hydrocarbons at 0—200°C. with aq. solution of metal compound of platinum group in presence of oxidising agent having oxidation potential higher than of platinum compound.

65529. Consortium Fur Elektrochemische Industrie G.M.B.H. Process for the manufacture of carbonyl compounds like aldehydes and ketones. (July 11, 1958.) Oxidising olifinically unsaturated hydrocarbons with oxygen aq. solution of metal compound of platinum group, polyvalent metal salt and halogen ions at upto 200°C.

65530. Consortium Fur Elektrochemische Industrie G.M.B.H. Process for the production of carbonyl compounds. (August 1, 1958.) By the catalytic oxidation of olefinically unsaturated hydrocarbons.

65531. Carding Specialists (Canada) Limited. A method of and apparatus for the treatment of cotton fibres. (November 26, 1957.) Comprising passing a thin web of the fibres through ironing rollers to cause all or a substantial proportion of the individual fibres to be smoothed and subjecting the web leaving the ironing rollers to a drafting action.

OCTOBER 16.

65532. Void.

65533. Edalji Kerawalla & Company. Improvements in or relating to Electrical Water Heating systems in storage tanks. Comprising a storage tank, a false bottom, a heating chamber made out of insulated material, a heating unit, a pipe line which bifurcates into two parts, and additional pipe line, two taps, incoming water gets heated by electrical short circuiting of the terminal of the heating elements.

65534. Edalji Kerawalla & Company. A portable electrical geyser. Comprising a heating chamber which is attached to the water tap by means of a rubber bushing, said chamber containing two electrodes insulated from each other and a coupling nut for keeping said bushing engaged with the bid of said chamber.

65535. Void.

65536. M. M. Suri. A coupling for power shafts. Comprises in combination a synchronising means and a positive mechanical means between the input and the output shafts, the synchronising means either employs fluid as coupling means or of the electro-magnetic type.

65537. Void.

65538. F. W. Schmitt (nee BOCK). Method for the drawing of sheets of thermoplastic synthetic materials and a device for carrying out this method. Drawing operation takes place with the free, sliding of plasticized sheet material during the cooperation of edges of male and female members.

65539. M. C. Dickman. Improvements in and relating to apparatus for recording Telephone Messages. Including a pick up means responsive to signals in any suitable channel, filter means and switching means responsive to signals passed by the fitter to switch on an energising current arranged to initiate and maintain a sequential series of operations.

65540. Bendz Limited and S. Ackerman. Improvements in or relating to means for connecting pipes and other duct members to each other. [Divided out of No. 60106 and ante-dated to April 4, 1957.] Comprising the steps of placing an initially rectilinear length of ductile metal duct in a guide structure which embraces externally positioning a flexible or articulated mandrel within the duct.

65541. Union Carbide Corporation. Process for making shaped carbonaceous articles and articles obtained thereby. By heat and pressure from a mixture containing particles of carbonaceous raw material and a fusible carbonaceous binder.

OCTOBER 17.

65542. Void.

65543. Council of Scientific and Industrial Research. A process for the preparation of ω -Dicarboxylic acids and ω -hydroxy acids suitable for conversion to Macrocyclic compounds. Aleuritic acid is brominated, esteried with methanol and then debrominated.

65544. Void.

65545. Metallurgical Processes Limited, and The National Smelting Company Limited carrying on business under the name and style of Metallurgical Development Company. Improvements in or relating to the separation of Lead and Zinc. (October 16, 1957.) Lead contaminated zinc vapour is condensed in a circulated stream of molten zinc which is at a lower temperature than the zinc-containing lead, zinc vapour being simultaneously evaporated from the circulated stream of molten zinc and condensed in a zone.

65546. United States Rubber Company. Improvements in Power Transmitting Mechanism. (July 31, 1958.) Comprising at least two gears having teeth on their peripheries and a flexible belt having teeth thereon adapted to mesh with gear teeth.

65547. Pending.

65548. Void.

65549. James Finlay & Co. Limited. Improvements in or relating to trolleys of the type used in the withering of tea left by the tunnel method. [Addition to No. 63114.] Provided with two wheels in axle formation and two wheels of swivelling type, as the leading and trailing wheels respectively.

65550. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Method of dimerizing lower alpha-olefins. Dimerising lower α -olefins in the presence of a catalyst formed by contacting an alkoxide of a transition metal of Group IVa, Va or VIa with an alkyl metal compound of a metal of Group I, II or III.

OCTOBER 18.

65551. Ciba Limited. Pharmaceutical and food preparations. Using p-chlorophenyl-ethyl alcohol as preserving agent.

65552. D. Napier & Son Limited. Epicyclic gearing. (October 21, 1957.) Primary planet gears are overhung outside planet carrier flanges in which are mounted bearings for the planet gears, the flanges being connected together by a tabular portion of the planet carrier.

65553. Pending.

OCTOBER 24.

65554. J. V. Roy. A safety bumper for motor cars, trucks ; locomotives or the like power driven vehicles. Comprising a spring loaded bumper made of metal, pneumatic rubber either in one piece or several separate pieces with inwardly extending arms provided with clutches allowing only the inward motion of the arms, the free end of the arms operating a common lever which acts upon brakes.

65555. Void.

65556. Council of Scientific and Industrial Research. A process for electrolytic production of iron-chromium alloys from chromite ore. Digesting chromite ore with sulphuric acid in presence of chromic acid and electrodepositing iron and chromium alloy from the resulting solution.

65557. Societe Des Usines Chimiques Rhone-Poulenc. Process for the preparation of new Phenthiazine Derivatives and Pharmaceutical compositions containing them. Reacting phenthiazine derivative like 3-cyano-10-(3-toluene-p-sulphonyloxypropyl) phenthiazine with compound like 4-piperidylmethanol which introduces at 10-position and amino alkyl substituent.

65558. Bataafse Petroleum Maatschappij, N. V. Hydrocarbon compositions. Comprising a major proportion of a hydrocarbon liquid, a minor proportion of a salt of a metal having an atomic number between 21 and 29 and an organic acid selected from the group consisting of aromatic carboxylic and aromatic sulphonic acids and a minor proportion of a metal deactivator.

65559. Westinghouse Brake and Signal Company Limited. Improvements relating to vigilance Control Apparatus for Automotive Railway Vehicles. (October 23, 1957.) [Addition to No. 64852.] A warning means is electrically operated under the control of electrical contact which together with electrical contacts controlling electromagnetically operated brake application serving to initiate a brake application in emergency.

65560. Bonas Bros. Limited. Improvements in or relating to narrow fabrics. (October 24, 1957.) Having a bifurcated or multiply edge comprising the steps of laying weft loops from at least two weft loops are common to the body of the fabric.

65561. Merek & Co., Inc. Process for preparing sulfonamide compounds. Comprises reacting a compound like 2,4,5-trichloro-nitrobenzene with at least two equivalents of an alkali metal sulfite to form the corresponding alkali metal sulfonate which is converted to the disulfonyl chloride with at least two equivalents of chlorosulfonic acid and then amidated with at least four equivalents of a compound selected from the group consisting of ammonia and mono-lower-alkylamine thus forming 5-X-2, 4-disulfamyl nitrobenzene the nitro group of which compound is then reduced.

65562. Imperial Chemical Industries Limited. Process for the manufacture of monoazo dyestuffs. (October 30, 1957.) Coupling diazotised 2-naphthylamine-1-sulphonic acid with compound like 2-amino-5-naphthol-7-sulphonic acid.

65563. Imperial Chemical Industries Limited. New and Improved Anion Exchange Resins, and their production. Polymerising polythylenically unsaturated quaternary ammonium ester salt having on quaternary ammonium salt group bonded to quaternary nitrogen with alkylene group plane or nitrogen atom interrupted chain.

65564. Universal Winding Company. Method of producing and finishing fabrics. Comprising at least one multifilament thermoplastic crimped yarn containing latent and/or active crimping forces.

65565. Commercial Bureau. Improvements relating to transparent pressure-sensitive adhesive tapes. An adhesive composition comprising a dispersion of rubber, one or more of thermoplastic and thermosetting resins, plasticisers and organic solvents.

65566. Dura-Design Plastics Limited. A method of forming casts made with plastic foam material. (November 9, 1957.) A cast made of plastic foam material comprising the steps of mixing plastic foam material and a catalyst in a flexible container.

65567. N. V. Curacaosche Exploitatie Maatschappij UTO. Improvements in or relating to electrodes. Comprises a stable, chemically substantially inert compound or form of material formed there non-electrolytically such as by chemical or thermal treatment of the electrode.

65568. Vyzkumny Ustav Naftovych Motoru and Z. Hrnčíř. Improvements in or relating to Single-Cylinder Internal Combustion Engines. (June 17, 1958.) Wherein the crankcase is divided along a plane perpendicular to the axis of the engine crankshaft.

65569. Vyzkumny Ustav Naftovych Motoru and Z. Hrnčíř. Improvements in or relating to Cylinder Head and combustion chamber assembly for Internal Combustion Engines. (June 17, 1958.) There is provided a unit containing the combustion chamber constructed in the form of a bolt having a shoulder.

65570. The Wellcome Foundation Limited. Improvements in and relating to sulphonylureas and the manufacture thereof. (October 31, 1957.) A pyrrolidine is reacted with a reactive carbonic acid derivative of an arenesulphonamide.

65571. Pending.

65572. N. V. Philips Gloeilampenfabrieken. Compositions for influencing the growth of plants. Consists of 0.1 to 5 per cent of a di- or tri-substituted benzanitrile in an inert solid or liquid carrier.

65573. Hercules Powder Company. Improvements in or relating to separator assembly and separation of liquids. Introducing liquid mixture into a central portion of rotating chamber, laterally conducting flow of the mixture from within the chamber, while at the same time rotating the flowing liquid together with rotation of the chamber arresting turbulent flow of the mixture, and thereafter flowing the liquid mixture from the entrapping zone along the wall of the separating zone to separate the components of the mixture.

65574. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of α -chloro- β -amino carboxylic acid derivatives. Comprising reacting a chloro compound with liquid ammonia and if desired, converting the resulting product into an ester and/or into an acid addition salt.

65575. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of ethyleneimine derivatives. Comprising reacting a bromo compound with liquid ammonia and if desired, converting the resulting imine product into an acid addition salt.

65576. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of N¹, N²-disubstituted carboxylic acid hydrazides. Comprising condensing 1, 2-diisopropyl-hydrazine or a salt thereof with an acylating agent, if desired hydrolyzing the condensation product to the corresponding hydroxy-substitution product and if desired transforming the hydrazides formed into salts thereof.

65577. Douglas Fraser & Sons Limited. Machine for feeding cuttings of blast fibrous material to a processing machine. (November 23, 1957.) Including a chamber, an endless relatively narrow spikes lattice rotatable within the chamber and includes a pair of endless chains spaced apart by transverse rigid slats.

65578. Oldham & Son Limited. Improvements in and relating to electrical storage cells. (December 18, 1957.) The floor of the cell box have transverse cavities in which supports are provided for resting storage plates, the floor and supports suitably shaped for acid and sludge circulation.

65579. Parks-Cramer Company. Stop Motion for textile machines. Comprising a normally open switch and a normally closed switch in series, means for closing the first switch on occurrence of slack in textile strand and means with tumbler shaft for opening second switch during periods of reversal of builder motion.

65580. Parks-Cramer Company. Electrical Switch. Comprising carrying metal prongs on casting one prong movably mounted for engaging bus bars of continuous outlets fixed contact connected to one prong and movable contact connected to other prong, movable contact movable into and out of engagement with fixed contact.

65581. The Mond Nickel Company Limited. Improvements relating to iron-nickel alloys and articles made therefrom. (November 1, 1957.) Comprising 22 to 36 per cent nickel, 5 to 30 per cent cobalt, 1.25 to 1.75 per cent titanium, less than 0.05 per cent carbon, and 0 to 2 per cent copper, the remainder iron.

65582. Fichtel & Sachs A.G. Improvements in automatically acting clutches. A regulating weight influencing control device and subject to the action of acceleration or deceleration of vehicle is provided.

65583. J. Handley. Improvements in perforating apparatus for perforating the elements of a signal combination. (October 26, 1957.) Comprising punches, means for selecting a combination of punches, punching mechanism including means for effecting movement between punches and tape, and means for selecting punches for succeeding punching operation.

65584. Ciba Limited. New acylated *vis* -dihydroxydiamino-anthraquinone and their manufacture and use. [Addition to No. 62511.] Treating *vis* -dihydroxy-diaminoanthraquinone with a mixture containing formic acid and a chloride of aliphatic monocarboxylic acid.

65585. Ciba Limited. Process for the manufacture of new Phenoxy Ethyl Amines. Reacting compound of type 1:2-di(O-methoxyphenoxy)-ethyl bromide with N-methyl-benzylamine, catalytically debenzylating reaction product to obtain N-(O-methoxy phenoxy-ethyl)-N-methylamine.

65586. Ciba Limited. New cyclodecane compounds and process for their manufacture. Comprises N-alkylation of N-unsubstituted 1-azo-spiro (4:5)-cyclodecane-2-one.

65587. Ciba Limited. Manufacture of Alkyl-Pregnane compounds. Treating a Δ^6 -20-keto-pregnane compound with an alkyl magnesium halide in the presence of a cuprous halide.

65588. V. K. Paranjape. Process of recovery of non-ferrous metals, copper, tin and lead from metallic residues of Engineering Industries. Subjecting crushed and powdered residues to air and for water floatation to separate metallic portion and subjecting the latter to air and/or water floatation to separate individual oxides and recovering metal from oxides.

OCTOBER 25.

65589. Void.

65590. The Upjohn Company. Fungicidal Composition. Comprising pentachloronitrobenzene and cyclohexamide.

65591. The Upjohn Company. Compounds. Anaerobically cultivating streptomyces hygroscopicus in aqueous nutrient medium or insolating antibiotic formed.

65592. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improvements relating to Concentrated Urea-Formaldehyde Solutions. Absorbing gaseous formaldehyde in aqueous urea solution at a pH of from 7 to 9.

65593. Void.

65594. Vyzkumny Ustav Naftovych Motoru, V. Novotny, Z. Pilat and E. Domansky. Improvements in means for securing cylinder heads to the cylinders of internal combustion engines. (June 30, 1958.) Wherein the cylinder head is held on to the cylinder by means of at least one bridge piece.

65595. Pending.

65596. Centre National De La Recherche Scientifique. Improvements in the production of graft copolymers. Subjecting to high energy radiation and adjusting the conditions of treatment so that polymerization rate is below the rate of penetration of monomer through graft copolymer formed.

65597. May & Baker Limited. Improvements in or relating to pyrimidine derivatives. (October 25, 1957.) Process for the preparation comprising reacting a pyrimidine with a diamine.

65598. Whithin Machine Works. Combing machine. Having a nipper frame including transversely extending pivot means and side portions connected by a transverse body portion.

65599. Simon-Carves Limited. Improvements in or relating to the grading or separation of raw materials. (November 5, 1957.) Comprising a radiobactive isotope emitting gamma rays, means for directing a collimated beam of the rays against a particulate sample layer not less than $3\frac{1}{2}$ inches thickness, and means for measuring the intensity of a scattered ray deflected from the sample layer.

65600. Lysaght's Works Pty. Limited. Metal Decking sheets incorporating flange locking arrangements. Comprising at least one tongue on male flange able to ride resiliently against the first web of a similar sheet channel while being laterally entered.

65601. Ruson Laboratories, Inc. A germicidal composition comprising Iodine and a N-Acyl Colamino Formyl Methyl Quaternary Ammonium Salt. Comprising an aqueous solution having pH of less than 7 and containing from a trace to 25 per cent. by weight of iodine and from a trace to 50 per cent. N caproyl colamino formyl methyl pyridinium chloride.

65602. Societe D'Applications Industrielles Plastiques. Improved Phonograph Records. Central part comprises at least two slots which cross each other in the geometrical centre of the sound track.

65603. Societe D'Applications Industrielles Plastiques. Method and means for conditioning and conveying films of plastic material. The film is conditioned and conveyed solely through the agency of conditioned air streams directed obliquely.

65604. Societe D'Applications Industrielles Plastiques. Apparatus for pressing gramophone records. Compression of film inside a mould carrying the die or dies at least one sheet of deformable non-compressible material being between the mould and die or plate substituted therefor and there it means for preventing the plate from being deformed.

65605. A. J. A. Asplund. Continuous disc type press. Wherein thrust exerted on press discs by the suspension is counter balanced by at least one hydraulic servo-system acting on movable disc.

65606. A. J. A. Asplund. Continuance disc type press. Discs are constructed to provide behind the perforations peripherally spaced sells preferably of sector-shape communicating with interspace through perforations.

65607. Void.

OCTOBER 29.

65608. M. M. Bhavsar. Hanger for garments or the like. Comprising a plate with a jaw at one end, the plate had a carrier secured to it, the carrier comprising an angular member hook shaped at its outer or free end.

65609. Dr. E. Fehrer. Process and apparatus for the manufacture of thin yarns from coco fibres, sisal or other textile fibres. Fibres being larger in diameter than the desired yarn to obtain carded fibres and twisting said sliver to obtain desired yarn.

65610. Council of Scientific and Industrial Research. Improvements in or relating to the production of chemically bonded metal clad or unclad basic refractories. Obtaining a mix by adding to crushed and dead burnt magnesite, a stable oxychloride cement, and pressing the mix into bricks of required shapes.

65611. Council of Scientific and Industrial Research. A filter for Calibrating the Wave Length Scales of Optical Instruments such as the Spectrophotometer. Determining and plotting graphically transmission or absorption curves of coloured transparent materials by calibrated spectrophotometer, finding out points of inter-section in the curve, choosing and pairing two coloured materials having one sharp and clear cut point of inter-section, and fixing selected pair of coloured materials in a frame or holder.

65612. Void.

65613. K. N. Kashyap. Improvements in or relating to clamps particularly suited for attaching, rods, frames or like fixtures to cots, hospital bedsteads or the like. One of two limbs is notched and capable of resting snugly against the frame of cot.

65614. N. V. De Bataafsche Petroleum Maatschappij. A combustion apparatus suitable for burning solid fuel substantially comprising a mixture of soot and oil. Gasification chamber provided with free supply device and a supply for primary combustion air.

65615. Tecalemit Limited. Improvements in flexible and semi-flexible tubular conduits. (October 30, 1957.) An inner extruded nylon pipe or tube surrounded by braided terylene filaments and an outer sleeve of synthetic plastic material.

65616. J. R. Geigy A. G. New Benzophenone sulphonic acid amides. Process for the production comprising reacting a benzophenone-sulphonic acid derivative with ammonia.

65617. Imperial Chemical Industries Limited. Polymer compositions. (November 8, 1957.) Comprising polypropylene and zinc di (saturated hydrocarbon) dithio carbamate.

65618. Imperial Chemical Industries Limited. Polythene compositions of improved clarity. Comprising polythene and another polymeric material having a crystalline melting point above that of polythene.

65619. United States Steel Corporation. Process and apparatus for cooling hot iron powder agglomerates. Cooling hot iron powder agglomerate from 700°F and preventing reoxidation by immersing the agglomerates in water and withdrawing them after a brief interval at a temperature at which the sensible heat immediately evaporates.

65620. Merck & Co. Inc. Process for preparing sulfonamide compounds. Treating 2,4-dichloronitrobenzene with sodium disulphide, oxidising, amidating and reducing the nitrogroup of the product.

65621. Merck & Co. Inc. Steroid production. (January 29, 1958.) Halogenating 3 α -acyloxy-16 α -alkylpregnane-11, 20 dione reacting product with alkalimetal hydroxide esterifying, reducing, acylating, oxidising and then acylating to reaction product.

65622. Societe Des Forges Et Ateliers Du Creusot. Improvements in or relating to cable hoisting mechanisms. Comprising a winding cable drum and a slack- and overload-detector.

65623. G. Dirks. Cyclically operable data storage apparatus. (November 9, 1957.) Each track being divided into a plurality of character storage positions, including a first magnetic transducing head co-operating with first track, a plurality of second magnetic transducing heads co-operating with the second track.

65624. Etablissement DIC. Method of dry construction and set of construction elements for carrying out the same. Walls and partitions with offset joints are mounted by setting up hollow elements of different lengths.

65625. American Cyanamid Company. Catalytic reduction of 6-hydroxy hydronaphthacenes. Wherein a polar solvent solution of a 6-hydroxy hydronaphthacene is contacted with hydrogen in the presence of a finely divided rhodium catalyst.

65626. Westinghouse Brake & Signal Company Limited. Improvements in and relating to Rectifier Circuits. (November 7, 1957.) Comprising two star-connected groups of controllable power rectifiers of the transistor type each having an emitter, a collector and a base electrode.

65627. Ing. L. Franc, Ing. M. Masek, Dr. J. Duben, Z. Belik and J. Bechyne. A device for automatically dispensing water into a concrete mixing machine. Electric probe immersed into concrete mixture insulated from mixing drum, an electric circuit formed between the probe and drum and a-c. electric source, controlling electromagnetic valve opening or closing water supply to mixing drum and means for adjusting water supply according to final electric resistance of mixture.

65628. Reishauer-Werkzeuge A. G., Aktiengesellschaft. Improvements in or relating to manually operated chuck. Screw threaded spindle by means of a nut thereon drives a first toothed crown rotatably mounted in the chuck body.

65629. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to thermal switches. A thermal safety switch is connected in parallel with the heating element and reduces its contact distance, upon being heated and closes before an unduly high temperature of a part of the main switch is reached.

65630. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to methods of recrystallizing filaments made of refractory materials. A capacitor discharge takes place through the filament after the current bringing the filament to the crystallization temperature is switched off.

65631. Void.

65632. Sandoz Ltd. Scopine ethers and process for their manufacture. (September 17, 1958.) Reacting scopine with diphenyl diazonethane derivative.

65633. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of isoeaxanthin dialkyl ethers. Reacting 1:18-di-[2:6:6-trimethyl-cyclohexen(2)-ylidene]-3:7:12:16-tetramethyl-octadecahexaen-(2:4:6:12:14:16)-yne-(9)diol-(8:11) with an alcohol in the presence of a strong acid to produce 15:15'-dehydro-isoeaxanthin dialkyl ether, partially hydrogenating the latter at the triple bond and isomerising the 15:15'-cis-isoeaxanthin dialkyl ether.

65634. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny & Cirey. A Mixing Apparatus. Comprising a part-cylindrical chamber closed by a cover to receive the material to be fixed, a shaft rotatably mounted co-axially within the chamber an element slidable in a slot formed in the cover.

65635. Seetru Limited. Improvements in sealing arrangements for valves. (October 30, 1957). Including plunger having conical portion co-operating with a complementary conical seat, a peripheral shoulder on plunger providing an abutment for a lipped D-ring, the body of which ring bears on the conical seat when valve is closed.

65636. Elektronikus Merokeszulekek Gyara. Strain measuring attachment for elongation measuring instruments. Characterized in that it includes a voltage compensation system to equalize the voltage variations due to the difference in the resistance rates of the strain gauges and a phase corrector to equalize the phase difference of the measuring voltage.

65637. Maschinenfabrik Augsburg-Nurnberg A. G. Improvements in or relating to diesel engines. A duct connecting intake and exhaust systems is controlled by a variable valve allowing return of exhaust gases is controlled quantity to intake system.

65638. Ferbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of chlorine dioxide. By reacting an alkali metal or alkaline earth metal chlorate with sulfur dioxide in sulfuric acid solution.

65639. Void.

65640. Void.

65641. Void.

65642. Void.

65643. Void.

65644. Void.

65645. Void.

65646. Council of Scientific and Industrial Research. Improvements in or relating to the production of manganese metal from manganese chloride baths with special reference to the utilization of low grade manganese ores. Electrolysing manganese—ammonium chloride solutions wherein sodium chloride is employed as anolyte with the production of chlorine as valuable anode product.

OCTOBER 30.

65647. Void.

65648. W. B. Poludniak Improvements in liquid fuel burning devices for heating and lighting purposes. Comprising a closed fuel reservoir, a burner communicating therewith, and an annular chamber positioned to be heated by the burner and communicating with tubular connections extending into the reservoir the one connection enclosing a wick and extending to near the bottom of the reservoir.

65649. The British Oxygen Company Limited. Flux coated Welding Electrodes. (November 7, 1957.) Comprising a core wire and a flux coating which is adapted to evolve a shielding gas, and in which the striking end of the electrode has applied to it a composition differing from the flux coating, the electrode being of a low hydrogen type and the composition contains a minimum of combined water and hydrogen.

65650. G. C. Sullivan. Improvements in or relating to Fire arms. Comprising a barrel, a receiver and bolt mechanism, receiver being fabricated of an aluminium alloy barrel having an annular member secured of the rear portion thereof and extending rearwardly from the barrel into receiver a distance to

engage only the forward portion of bolt mechanism an annular member being fabricated of a material of higher strength than aluminium alloy and being mounted with in receiver.

65651. G. Neidl. Improvements in and relating to rotary pumps, particularly for delivery of sewage thick slurries and the like liquids. Wherein a rotary pump member is mounted in inclined relation on a shaft which is rotatable within a stationary housing.

65652. Bellrock Gypsum Industries Limited. Improvements in or relating to the manufacture of plasterboard structural units. (November 12, 1957.) Comprising integral structural members projecting from the plane of the board as constant profile shapes extending longitudinally of the board.

65653. Farbenfabriken Bayer Aktiengesellschaft. Tetrahydrothiamidine-thione derivatives and Nematicidal, Fungicidal and Herbicidal compositions containing said derivatives. (August 7, 1958.) Reacting dithiocarbamate of primary amine with mineral acid salt of another primary amine and formaldehyde.

65654. Farbenfabriken Bayer Aktiengesellschaft. Process for the production of new basic dyestuff and materials dyed therewith. (August 26, 1958.) Reacting with quaternising agent with reaction product of alkali and basic dyestuff obtained from heterocyclic compound like 1, 3, 3-tri-alkyl-2-methylene-quinoxalines.

65655. Pending.

65656. United States Steel Corporation. Fluidized-Bed Reduction of Ore. Ascending currents of preheated reducing gas fluidize and reduce the partially reduced fines in secondary step and ascending currents of off-gas from secondary step, fluidize and reduce preheated fines in primary step, the resistance to gas flow through the fines causes a pressure drop which tends to cause an increase in exit gas velocity from each step.

65657. J. R. Geigy A.-G. Process for the dyeing and printing of polymeric synthetic materials. Consisting of colour salts which are diazoamino compounds in which two heterocyclic nitrogen containing rings are bound by a triazene group $=N=N=N-$.

65658. C. H. Johnson (Machinery) Limited. Method and apparatus for vibrating the surface of Concrete Roads, Floors and like structures. With the vibration unit positioned will down the side of the screed or tamping board.

65659. Excel Industries. Improvements in or relating to process of and apparatus for manufacture of mercuric chloride and mercurous chloride. Metallic mercury and elementary chlorine are reacted together at elevated temperature of 300 to 500°C and the product formed is collected from the reaction mixture.

65660. G. M. Pfaff AG. Freely rotating looper for sewing machines. A housing, a looper cage, a bobbin casing having a radially extending rib and an outer shell and a supporting ring said bobbin casing having an interrupted cylindrical wall portion having a recess along the inner periphery.

65661. Libbey-Owens-Ford Glass Company. Vehicle windshields. Comprising a glass sheet bent about both the longitudinal and transverse axes thereof, said sheet being bent about the transverse axis rather gently in a central portion merging adjacent the longitudinal extremities into regions of sharp curvature to form wing portions extending in one direction in spaced planes.

65662. Metropolitan-Vickers Electrical Company Limited. Improvements in and relating to electrical brush gear. (November 8, 1957.) In which a carrier supports a number of brush holders and is provided with an insulated handle, said carrier being detachably secured to a fixed bracket.

65663. Pending.

65664. Pending.

65665. Pending.

65666. Void.

65667. Ciba Limited. 3-Glycosides of 4⁵-20-amino-3-hydroxy-pregnene compounds and process for their manufacture. A pregnene derivative is reacted with a reactive derivative of a mono- or di-saccharide or a 3-glycoside is reduced.

65668. Cognate with No. 64889.

65669. Trubenised Company (Registered Trust). Improvements in collars for wear. (October 31, 1957.) Having its fold line defined by a strip of flexible sheet material inserted in and located by a pocket formed between two of the collar plies.

65670. Standard Telephones and Cables Limited. Radio beacon system. (October 31, 1957.) In which an arc of the approach zone is scanned with a beam of electromagnetic energy moving with predetermined angular velocity.

65671. W. F. DePenning. Method of coating surfaces such as hulls of boats and ships with cold-curing resin-containing sheets. Characterised in that coating comprises of a deformable sheet, consisting of fibrous reinforcing material and partially cured cold-curing synthetic resin composition.

OCTOBER 31.

65672. C. J. Sawhney. Improvements in or relating to fuses on meter boards of electrical mains. Fuses arranged with one end connected to the busbar and the other end connected to a tapping point each, each tapping point connecting the feed in line through a shifting lever fixed at the end of the shaft located centrally of tapping points which is operable from outside the box to contact any tapping point.

65673. Super Oil Seals and Gaskets Limited. Sealing device. (November 1, 1957.) Comprising a tubular case of rubber or the like having a flange at each end.

65674. Imperial Chemical Industries Limited. New anthraquinone dye-stuffs. (November 13, 1957.) Reacting β -halogenoalkylamine with an anthraquinone compound substituted in at least two of the - - position, of the anthraquinone nucleus by arylamino radicals each containing at least one sulphonchloride group.

65675. Imperial Chemical Industries Limited. New colouration process for textile materials. (November 22, 1957.) Treating textile with aqueous solution containing resin forming composition, acid catalyst and a dyestuff containing reactive halogen atom.

65676. Dunlop Rubber Company Limited. Improved tool for fitting and removing valve cores of pneumatic tyres of other inflatable articles. (November 28, 1957.) Comprising a key part for insertion into the valve barrel to engage the core.

65677. Merck & Co., Inc. Synthesis of Steroid Phosphates. (January 25, 1958.) Reacting a 21 halogenated derivative of 3, 20-diketo-17 α , 21 dihydroxy-11-oxygenated steroid of 4-pregnene series with tertiary lower alkyl amine phosphate.

65678. Merck & Co., Inc. Steroid production. (January 29, 1958.) Subjecting 16 α -alkyl-4-pregnene-3,20-dione to the action of oxidising enzyme produced by oxygenating strain of *dactylium dendroides*.

65679. Alweg-Forschung Gesellschaft mit Beschränkter Haftung. Improvements in and relating to switch blades for monorail switches. [Addition to No. 56769.] Comprising an inner, longitudinally disposed box girder surrounded

by an outer box girder and means for preventing relative transverse movement between the two girders.

65680. Guest, Keen & Nettlefolds (Midlands) Limited. Improvements in or relating to screwdrivers. Screw driving tool is characterised in that each driver bit vane is formed on the driving face with a driving edge which extends in a direction inclined to the axis of the driver bit such, that one end portion of the driving edge is situated nearer to the axis than the other end portion, the driving edge being adapted to penetrate, into the surface material of the adjacent side wall of a corresponding groove of the screw races.

65681. Lacy-Hulbert & Company Limited. Improvements in rotary air compressors. Wherein a driving pulley is fixed to its rotor shaft and a further pulley carrying a fan is mounted for free rotation at a higher speed than the rotor.

65682. Lacy-Hulbert & Company Limited. Improvements in rotary air pumps. Having at least five regularly spaced tangential Vanes, characterized by the locations of a main inlet port, an outlet port and a subsidiary inlet port.

65683. Void.

65684. Pirelli-General Cable Works Limited. Improvements in or relating to joining electric cables. (January 16, 1958.) Method consists in first jointing the bared cable conductors in the normal manner; then covering them with layers of polyvinyl chloride tape and a polyvinyl chloride composition.

65685. The Standard Motor Company Limited. Gas turbine powder plant. In which heat-exchanger is annular and is arranged for the passage there-through, in separate streams.

65686. Carding Specialists (Canada) Limited. Improvements in or relating to carding engines. (November 29, 1957.) Consisting in lifting parts of locks of fibres from the wire-clothed surface of a rotating carding roller submitting said lifted lock parts to a de-burring process.

NOVEMBER 1.

65687. Void.

65688. E. I. du Pont de Nemours and Company. Acrylonitrile polymerization. A monomeric material comprising at least 80 per cent. by weight of acrylonitrile is continuously polymerised in a solvent for the resulting polymer and in a diluent which is a non-solvent for the polymer.

65689. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Elastic yarns. An elastic yarn comprising a vulcanized sulpho-chlorinated high molecular weight linear propylene/ethylene copolymer.

65690. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improvements in the process for polymerising ethylene with the aid of organo-metallic catalysts. Catalyst components are contracted with stirring at a temperature of from -10 to 100°C ., the stirring being continued whilst the temperature rises to room temperature and the catalyst thus formed is contracted with ethylenes under polymerisation conditions.

65691. G. Zambon & C. S.p.A. Process for the production of a chemotherapeutically effective ester of chloramphenicol. Reacting chloroamphenicol with halogenated acetyl halide in organic solvent and basic matter aminating the resulting product.

65692. Electric & Musical Industries Limited. Improvements in or relating to electric motors. Wherein the radial extent of the air-gap between the armature and stator holes is a maximum at the centres thereof.

65693. Olin Mathieson Chemical Corporation. Benzothiadiazines. 5-amino- α : α : α :—trifluoro-2:4-toluene-disulfonamide is reacted with formic acid.

65694. Nopco Chemical Company. Conversion of α,β -unsaturated aldehydes to the corresponding alcohols. (September 12, 1958.) Preparing an aqueous alkaline homogenous single phase system containing the $\alpha:\beta$ -unsaturated aldehyde and formaldehyde, reacting the $\alpha:\beta$ -unsaturated aldehyde and formaldehyde and recovering the resulting $\alpha:\beta$ -unsaturated alcohol.

65695. Imperial Chemical Industries Limited. Malting of barley. Moistening barley with an aqueous solution or suspension of gibberellic acid product.

NOVEMBER 3.

65696. Council of Scientific and Industrial Research. Production of carbon pastes for use in the continuous Soederberg electrodes. Crushing dense carbon briquettes to obtain an aggregate and mixing the aggregate with a binder at a temperature in the range of 110°-145°.

65697. C. R. Gupta. An improved lubricating device for journal bearings for railways. A circular disc is securely attached to the axle end having its bottom segment submerged in the lubricating oil stored in axle box, and is provided a lubricating oil stripping off bracket.

65698. Void.

65699. Automatic Telephone and Electric Company Limited. Improvements in or relating to telephone systems. (June 27, 1956.) [Divided out of No. 60794 and ante-dated to June 15, 1957.] Employing registering device of the magnetic drum type.

65700. Automatic Telephone & Electric Company Limited. Improvements in or relating to telephone systems. (June 27, 1956.) [Divided out of No. 60794 and ante-dated to June 15, 1957.] Employing registering and translating device of the magnetic drum type.

65701. W. & T. Avery Limited. Improvements connected with the feed control of batch weighing apparatus. (November 5, 1957.) Comprising weighing means associated with a self-balancing potentiometer system.

65702. Plant Protection Limited. Seed dressing machine. (December 14, 1957.) Provide metered amounts of seed and seed dressing, a mixing device to which the metered seed and seed dressing can be supplied for preliminary admixture and worm elevator for delivering material from the mixing device.

65703. Limit Engineering Group Limited. Speed governor for electric motors. (June, 11, 1958.) Where a pair of centrifugal elements carrying electric contacts is disposed in line one on each side of the axis of rotation and is adapted for movement in a radial direction.

65704. Montecatini Società Generale Per L'Industria Mineraria E Chimica. Process for producing formaldehyde by oxidation of methanol. Oxidising methanol with a preheated nitrogen-oxygen mixture in the presence of a metal oxide catalyst.

65705. Montecatini Società Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Improvements relating to the preparation of polymers of Alpha-Olefins and other Vinyl Hydrocarbon. Using as catalyst a compound formed by contacting a transition element of Groups IV, V or VI with an organometallic compound of a metal of the Group I, II or III and a further but different compound of Group II.

65706. Ciba Limited. Process for the manufacture of reserpine acid esters and salts thereof. [Addition to No. 49755.] Esterifying reserpine acid alkyl ester having a free hydroxy group, with-3-alkoxy-4-alkoxy-carbonyloxy-5-nitrobenzoic acid.

65707. Ciba Limited. Process for the manufacture of reserpine acid esters and salts thereof. [Addition to No. 49755.] Esterifying reserpine acid alkyl ester having a free hydroxyl group with 2:5-dialkoxy benzoic acid.

65708. Ciba Limited. Process for the manufacture of reserpine acid diesters and salts thereof. [Addition to No. 49755.] Esterifying reserpine acid ester having a free hydroxyl group with hexahydrobenzoic acid.

65709. Ciba Limited. Process for the manufacture of reserpine acid esters and salts thereof. [Addition to No. 49755.] Esterifying reserpine acid ester having a free hydroxyl group with α -phenyl- α -methoxy-acetic acid.

65710. Ciba Limited. Process for the manufacture of reserpine acid diesters and salts thereof. [Addition to No. 49755.] Esterifying reserpine acid alkyl ester having a free hydroxyl group with *p*-nitro-phenylacetic acid.

65711. Ciba Limited. Process for the manufacture of reserpine acid diesters and salts thereof. [Addition to No. 49755.] Esterifying reserpine acid alkyl ester having a free hydroxyl group with diphenylacetic acid.

65712. Ciba Limited. Process for the manufacture of reserpine acid diesters and salts thereof. [Addition to No. 49755.] Esterifying reserpine acid alkyl ester having free hydroxyl group with 3:4-methylene-dioxy-cinnamic acid.

65713. Void.

65714. M. K. Mehta and Mrs. Kanta Mehta. Improvements relating to method of and machine for manufacturing filled plastic capsules. Deforming each of a pair of plastic strips fed towards each other, to produce a capsule half a received a charge of material fed to it, bringing the formed and filled capsule halves into juxtaposition and cutting out by pressure and sealing the portion of the strips around the capsule halves for enclosing the contents.

65715. E. I. du Pont de Nemours and Company. Graft copolymer shaped structures and their preparation. Chemically producing free radicals on nitrogenous condensation polymastructure to initiate polymerisation and hydro-setting graft copolymer product.

65716. The British Petroleum Company Limited. Fuel compositions. (November 4, 1957.) Consisting essentially of a blend of a gas oil and a solvent extract of a lubricating oil base stock, the amount of extract in the blend being not more than 30 per cent. by weight.

65717. J. Barabas, Dr. L. Z. selyonka, Dr. F. Kiss and A. Llbik. Condenser for increasing the resolving power of microscopes operating with transmitted light. Characterized by means adapted to sectionally intercept the bright field illumination oblique rays so that the dark field illumination has in some predetermined places, the sectional bright field illumination superposed on it.

65718. Boots Pure Drug Company Limited. Process for the preparation of acetanilide derivatives. (November 8, 1957.) Consisting in methylating of compound of type-4-dichloroacetamidophenyl benzoate, hydrolising reaction product.

NOVEMBER 4.

65719. A. E. I. Hotpoint Limited. Improved drive for centrifugal extractor machine. (November 22, 1957.) Rotatably mounted in a stationery housing and driven by means of an electric motor of which is operatively connected with a shaft on which the spin basket is mounted.

65720. Ustav pro vyzkum motorovych vozidel. A transmission device for motor vehicles. For transmission of impulses from eccentrics, cranks or cams to primary rings of one-way ratchet clutches there are provided pulling members preferably elastic or articulated.

65721. H. S. Whiteside & Company Limited. Improvements relating to the production of food products. (November 5, 1957.) Comprises mixing starch with sufficient water milk or other edible liquid to form a viscous mass.

65722. Bundy Tubing Company. Improvements in or relating to push rods and methods of making the same. Conditioning an end portion of an open-ended tubular element for receiving an insert in substantially centred relations.

65723. Swiss Serum And Vaccine Institute. New sulphonylurea derivatives and their production. (August 22, 1958). Void after publication. A

process for the production of N-(3-aminophenyl-sulphonyl)-N'-alkyl ureas comprises reacting a sulphonamide with an alkyl isocyanate or an alkyl urethane.

65724. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of chlorine dioxide. Susceptible of being converted to alkali metal chlorite, wherein the chlorine dioxide forming in the course of the reduction is washed prior to its being converted to alkali metal chlorite, with chlorate-containing sulphuric acid.

65725. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing sulfonyl-ureas. Comprising reacting alkali metal salts of halogenated sulfonic acid amides with formides.

65726. Crinos Industria Farmacobiologica s.p.A. Ateroid and a method of preparing the same. Subjecting organ homogenate to successive alkaline and acid extraction treatments.

65727. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to electric discharge tubes and devices comprising such electric discharge tubes. Electrode system comprising a cathode, a grid, an anode and an auxiliary electrode, the anode consisting of two halves each having a re-entrant part which faces the cathode while at both sides between the anode parts and the grid provision is made of screens.

65728. American Cyanamid Company. 5-Aryloxymethyl-2-Oxazolidinones. Effecting intramolecular condensation for an aryloxypropane derivative and which may be produced *in situ* in order to effect ring closure to form the oxazolidinone ring.

65729. Chas. Pfizer & Co., Inc. Pharmaceutical compositions and preparation. Comprising a steroid possessing corticoid activity in a pharmaceutically acceptable liquid carrier together with from about 25 to about 50 parts of weight of fructose.

65730. Glaxo Laboratories Limited. Improvements in or relating to the preparation of steroid compounds. (November 14, 1957.) Effecting acid hydrolysis of semicarbazone derivative of steroids in homogeneous medium the consisting of aqueous tetrahydrofuran and recovering keto steroid.

65731. Glaxo Laboratories Limited. Vaccine. Culturing to a culture medium a toxigenic strain of clostridium welchii, type D, separating bacteria from the medium, toxoiding the toxin, activating the toxoid and precipitating activated toxoid from the medium.

65732. The English Electric Company Limited. Improvements in and relating to commutators for dynamo-electric machines. Of the kind comprising in combination, a ring of electrically conducting segments secured by endring members which are clamped together axially and insulated from the conducting segments by a layer of insulating material.

65733. Pending.

65734. Chloride Batteries Limited. Improvements relating to tubular type plates for electric accumulators. (November 21, 1957.) Made of a highly permeable fabric resistant to acid and oxidation which is stiffened by application of a chemically resistant bonding agent.

65735. Von Kohorn International Corporation. Film producing apparatus. Comprising a tank, a transversely extending extrusion die having an elongated extrusion opening directed into tank, a downwardly inclined ramp extending longitudinally from tank means for introducing casting bath into tank.

65736. Carl Zeiss-Stiftung, trading as Carl Zeiss. Method for producing bodies changed in their geometrical shape or crystall structure by means of a beam of charged particles and device for carrying out such method. Characterized in that a beam of charged particles is used, the working cross-section of which is smaller than the cross-section of each area which is to be worked upon.

65737. Void.

NOVEMBER 5.

65738. Void.

65739. Sindri Fertilizers & Chemicals Private Limited. Improvement in or relating to the preparation of phosphatic fertilizers by heating substances containing sodium sulphate with materials containing calcium phosphate. Preparing phosphatic fertilizers by heating substances containing sodium sulphate with materials containing calcium phosphate.

65740. SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Improvements in or relating to apron drafting mechanism for textiles. Comprising a top roll carrier and loading arm which is upwardly pivotable and which carries guide arms pivotable relatively to the plane of the drafting field, with loading saddles for receiving twin top rolls.

65741. Mendip (Chemical Engineering) Limited. Pipe joint member. A collar surrounding an extremity of the pipe element is present an axially outwardly facing annular jointing face of radial width greater than the wall thickness of the pipe elements.

65742. Mrs. Joan Rasmussen. Non-woven fabric. Consist of two or more united layers one layer consists of a chain-molecular foil material strongly oriented in one direction and split up to partially separating the fibres so that they remain inter-connected to form a net work in the plain foil.

65743. Universal Oil Products Company. Process for condensing an alkylatable material with an olefin-acting organic compound. Comprises introducing a portion of alkylatable material and said olefin-acting compound into a multistage contacting vessel at an intermediate point in the height thereof.

65744. M. A. Cook and H. E. Farnam Jr. Explosive composition. (November 21, 1957.) Consisting of a mixture of trimetrotoluene and ammonium nitrate of which between 15 per cent. and 95 per cent. is trimetrotoluene with water in excess of 5 parts for each 100 parts of the trimetrotoluene and ammonium nitrate.

65745. M. A. Cook and H. E. Farnam Jr. Explosive composition comprising ammonium nitrate and a heat-producing metal. (February 28, 1958.) Comprising an oxidising substance selected from ammonium nitrate, and mixture of ammonium nitrate and sodium nitrate, a metal selected from group-aluminium, magnesium, boron mixtures of aluminium and ferrosilicon and water.

65746. M. A. Cook and H. E. Farnam Jr. Boosters for relatively insensitive high ammonium nitrate explosives. (April 25, 1958.) Comprising a relatively insensitive high ammonium nitrate explosive composition and a booster selected for the group consisting of cast and pressed pentolite, tetryl and RDX.

65747. The General Electric Company Limited. Improvements in or relating to electric fans. (November 12, 1957.) Wherein the body is apertured from the ingress of air and there is an aperture between the spinner and the open mouth.

65748. The Clyde Rubber Works Company Limited, and D. M. Hannah. Anchor for flat bottomed rails. (November 6, 1957.) Comprising a resilient wedge of angle section adopted to be interposed between the toe of the lower flange of the rail.

65749. American Steel Foundries. Transition coupling. Comprising a pair of links connected to opposite sides of the automatic coupler, a take up link arranged to be received over the hook coupler, a plurality, of links connecting the take up link to the respective links of the pair.

65750. American Steel Foundries. Transitional coupling arrangement. Comprising a pair of links for connection to the projections of the automatic coupler, and another link connected to the pair of links for connection to the hook of the non-automatic coupler.

65751. A Dellac. Improvements in or relating to solar energy storage plants for the production of hot water. Comprises one or more solar radiation

collectors communicating with a heat exchanger disposed at the base of a hot water accumulator tank.

65752. Ciba Limited. New oxidosteroids and process for their manufacture. Treating $11\beta:18$ -dihydroxy-steroid with an agent splitting off water or acid.

NOVEMBER 6.

65753. Void.

65754. Pending.

65755. Pending.

65756. Pending.

65757. Combustion Engineering Inc. Mold disassembling apparatus. Wherein there are provided a mold elevator having a carriage which normally is in a lowered position in which it is adapted to receive an assembled mold.

65758. R. P. Acharya. An educational device. Comprising board with representations on it, an enclosure with recesses to receive balls, a device for shooting balls and discs bearing letters having metal pins such that they can be picked up by magnetic rod and placed on the representations.

65759. F. Kallay. Improvements in or relating to files for papers. Having flaps assembled one after another wherein inner flap has outer edges in stepped shape and bottom flap to hold papers.

65760. S. Takita. A loose boss roller for a drafting device of a spinning frame. Arbor held in a saddle a cylindrical cell and a ball bearing arranged between the arbor and cell a thrust receiving disc, thrust bearing and set ring arranged symmetrically on each side of ball bearing.

NOVEMBER 7.

65761. Void.

65762. Void.

65763. Void.

65764. Food Machinery and Chemical Corporation. Preparation of amino acids. Originating cyclic ketone with 5-7c-atoms ring, cleaning the product between carbonyl and alpha carbon atoms and obtaining carboxylic acid therefrom.

65765. Gresham & Craven Limited. A vacuum brake quick action valve device. A pressure sensitive element subject on one side to vacuum present in a first chamber arranged to be open permanently and without restriction to vacuum brake pipe.

65766. Pending.

65767. Henschel Werke Gesellschaft Mit Beschränkter Haftung. Improvements in and relating to a locomotive frame and axle bearing guide assembly. Characterized in that fitting bores are provided in the frame on either side of the axle bearing apertures.

65768. Dyckerhoff and Widmann, Kommanditgesellschaft. Improvement in or relating to reinforcing rods for concrete. (March 20, 1958.) Having cold-rolled threads on it along at least part of its length the cross-sectional shape of thread being such that each root or valley of thread is rounded and is of larger radius than crest.

NOVEMBER 8.

65769. Void.

65770. F. L. Smidth & Co. A/S. Improvements relating to apparatus for conveying material in bulk. (November 11, 1957.) Comprising a stationary support formed with openings large enough to allow gas to pass through them and into and through the material.

65771. Calor Gas (Distributing) Company Limited. Apparatus for filling containers. Comprising a plurality of filling stations arranged in an arc about a central position.

65772. Babcock & Wilcox Limited. Improvements in tubulous vapour generating and superheating units. [Divided out of No. 60909 and ante-dated to June 26, 1957.] Lower portion of unit supported by means including vertical tubular suspension members, which are of such length and arranged to conduct fluid at such temperature that in operation thermal expansion of suspension members and of walls above said portion are matched.

NOVEMBER 12.

65773. Void.

65774. Inventa A. G. Fur Forschung Und Patentverwertung. Process for the production of glycerol and glycols from sugar alcohols. Cracking of glycerol and glycols is effected at 200—300° C. at a pressure of 500—1,000 atmospheres in a solution of pH 8 to 10.

65775. W. Simon. Improvements relating to preparation of solid wet fuels. Passing solid fuel along with air current in apparatus, the air eddies set therein griding the same.

65776. S. Natarajan. Improvements relating to electric water heater. Inlet valve and the safety steam pressure release are combined into a single unit including an inverted U-tube having a round hole at top of bend, hole serving as non-return type of water inlet valve and safety pressure release.

65777. Council of Scientific and Industrial Research. A new process for the production of 4-hydroxy-carbostyrils. Reacting aromatic amino compound with malonic acid.

65778. Council of Scientific and Industrial Research. Improvements in or relating to the production of transdiethylstilbestrol dimethyl ether and allied stilbenes. Heating α -ethyl-deoxyanisoin with phosphorous oxychloride without any solvent in a bath between 50—95°.

65779. Council of Scientific and Industrial Research. A process for the production of hydrogen sulphide from gypsum. Reducing gypsum with coal, lignite or coke at 800° C. and passing steam over calcium sulphide so formed at 600° C.

65780. Council of Scientific and Industrial Research. Improvements in or relating to evaporated metal coatings particularly suited for optical elements. Semi-reflecting coatings comprise an evaporated film of mixture of chromium and iron.

65781. Void.

65782. Void.

65783. Void.

65784. Void.

65785. Void.

65786. Imperial Chemical Industries Limited. Improvements in or relating to the manufacture of polymeric materials. (June 13, 1958.) Manufacture of pigmented blown cellulose materials, by reaction of polyisocyanates with polyethers, is characterised in that the pigment is incorporated into the reaction mixture in the form of a premixed paste with water.

65787. C. I. Williams. Outer wire tie rod. [Divided out of No. 60127 and ante-dated to April 8, 1957.] An inner integrally forged and upset member is complementally formed to detachably receive an outer end of the inner wire tie rod.

65788. Unilever Limited. Bearings. (December 6, 1957.) Plastic bearings comprising two co-axial cylindrical sleeves with annular space, connected by an inclined member.

65789. P. Runchhoddas. Improvements in or relating to spinning wheels. [Addition to No. 56480.] A pressure plate made of hardwood, vulcanised fiber or the like is employed for holding the drafting rollers in proper position.

65790. P. Runchhoddas. Improvements in or relating to spinning wheels. [Addition to No. 59324.] The bearings for holding the shafts of the lower drafting rollers are exposed at the top whereby the rollers could easily be removed for the purpose of replacement.

65791. Egyesult Gyogyszer Es Tapszergyar. A process for the production of α -aroyl- α -bromoacetic acid esters. α aroyl acetic acid ester is reacted with N-bromsuccinamide in a solvent medium.

65792. Egyesult Gyogyszer Es Tapszergyar. A process for the production of α -aroyl- α -phthalimino-acetic acid esters. Reacting α -aroyl- α -bromo acetic acid ester with alkali metal phthalimide in presence of solvent.

65793. Egyesult Gyogyszer Es Tapszergyar. A process for the production of α -aroyl- α -(O-carboxy-benzoylamino) acetic acid esters. Hydrolysing α -aryl- α -phthalimino acetic acid ester with dilute solution of strong alkali.

65794. Hindley Brothers Limited. Improvements in or relating to the crimping of textile yarns. (November 13, 1957.) Yarn twist being traversed longitudinally is passed into contact with 2 belt flights moving across the direction of travers of the yarn at different linear speeds.

65795. Burness, Corlett & Partners Limited. Improvements in and relating to hull forms. (July 21, 1958.) A hull form for trawlers and the like having surfaces constraining the water to flow on dragonal lines at the entry so that it does not cross the bilge.

65796. C.I.R. Construzione Incollatrici Rapide S.a.r.l. Method and apparatus for splicing cinematograph films and the like. (October 13, 1958.) Comprises means for cutting films transversely, a holder for holding two cut pieces to be spliced in alignment, an adhesive tape holder in across and cutting means for registering.

65797. Siemen & Hinsch m. b. H. Improvements in self-priming vertical centrifugal pumps. Wherein pump casing subdivided into a suction chamber, pressure chamber, and reservoir, the latter lying outside the impelling current.

65798. Woodall-Duckham Construction Company Limited. Improvements in or relating to coke oven batteries. (November 14, 1957). Charging coal mechanically through charging holes at a controlled aggregate rate adjustable at any time during a charging operation to suit the characteristics of the coal.

65799. Creed & Company Limited. Improvements in or relating to tape feeding apparatus. (December 12, 1957.) Comprising means for feeding a tape, charging a capacitor control means operative when the tape is being fed.

65800. Ciba Limited. Process for the manufacture of reserpice acid esters. [Addition to No. 49755.] Esterifying reserpice acid alkyl ester having a free hydroxyl group with dialkylaminobenzoic acid.

65801. Ciba Limited. Process for the manufacture of reserpice acid esters. [Addition to No. 49755.] Esterifying reserpice acid alkyl ester having a free hydroxy group with dialkylamino-alkoxy benzoic acid.

65802. Void.

65803. Void.

NOVEMBER 13.

65804. Commercial Bureau. Improvements relating to black adhesive insulating tapes for low tension electric wiring. Coating fabric successively with insulating adhesive compositions comprising rubber dispersion, carbon black, resins, plasticisers and fillers, the later composition having less of fillers but more of resins.

65805. Pending.

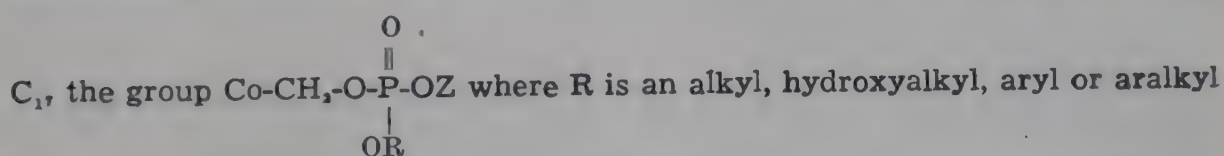
65806. T. Tachikawa. Process for the manufacture of highly polymerized viscose rayon. (January 24, 1958.) Comprising the steps of xanthating alkali cellulose with a mixture of carbon disulphide and a surface active agent in the presence of a monoamine dissolving the resulting cellulose in oil aqueous alkali extruding the resulting viscose into spinning bath containing oil solution of sulphuric acid or oxalic acid or mixture of both.

65807. G. Fusaroli. Improvements in or relating to bobbin holders. The bobbin holder comprises two parallel spaced elongated members of arcuate cross-section, the uppermost ends of the said members being shaped of substantially rectangular outline and adapted to give seat to the outer casing.

65808. Pending.

65809. Glaxo Laboratories Limited. Improvements in or relating to the preparation of steroid derivatives. (November 19, 1957.) A steroid 21-halide, or 21-sulphonyloxy compound is reacted with a phosphoric acid or a partially esterified phosphoric acid in the presence of an organic base in an inert solvent medium.

65810. Glaxo Laboratories Limited. Improvements in or relating to steroid derivatives. (November 19, 1957.) A steroid tertiary phosphate having at



group and Z is a group which can be removed, is treated by a known method for the removal of said group from tertiary phosphate compounds.

65811. Imperial Chemical Industries Limited. Production of silanes. (December 4, 1957.) Reacting an organopolysiloxane with an organo aluminium compound.

65812. Vacu-Blast Limited. Improved dry honing device. Comprises a feed hopper characterised by a housing secured at the bottom and separated by an air-pervious partition, a source of air under reduced pressure and a blast nozzle.

65813. British Insulated Callender's Cables Limited. Improvements in or relating to wiping dies for enamelling machines. (November 22, 1957.) Void after publication. Comprising a back wiper plate, a pair of mutually spaced pins projecting from the face of the back wiper plate.

65814. Universal Postal Frankers Limited and F. Parfett. Improvements in or relating to multi-value postal franking machines. Comprising plurality of selector knobs carried on first step of concentric shafts about which rotary printing element rotates and a second set of concentric shafts mounted in rotary printing element, respective shafts of first set being individually geared to corresponding shafts of second set.

65815. The Firestone Tire and Rubber Company. Tubeless tire and rim thereof. (April 30, 1957.) [Divided out of No. 60591 and ante-dated to May 23, 1957.] Beads have radially inner surface of coniform shape, said surfaces sloping radially and axially inwardly from largest diameter in same general direction.

65816. Keshri Mull Kundan Mull. Improvements in or relating to umbrellas. [Addition to No. 47890.] Sliding cap engaging cylindrical piece having stops on both ends and fitted on umbrella rod.

65817. Void.

65818. Void.

65819. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of heterocyclic hydrazine derivatives. Reacting 5-methyl-3-isoxazole carboxylic acid hydrazide with a carbonyl compound and reducing the hydrazone formed.

65820. Fairchild Arms International Ltd. Gas operated system for firearms and the like. Comprising a bolt and a bolt carrier assembly which are relatively movable with respect to each other and define between them an expandable chamber, and means for carrying the explosive gases resulting from firing directly from the barrel of the firearm to expandable chamber.

65821. MaK Maschinenbau Kiel Aktiengesellschaft. Suspension for the wheels of diesel locomotives and other rail vehicles. Adjacent each longitudinal side of the vehicle chassis a trough-shaped-member is connected via wear resisting resilient elements.

65822. Sandoz Ltd. Process of producing pyragoline derivatives. (September 23, 1958.) A piperidyl-4-hydrazine is reacted with a cinnamic acid ester.

65823. W. Huppe. Process for drying and firing clays, ceramic substances and like raw materials, and a device therefor. Raw materials to be dried are changed from below and spun into a tower type oven closed at the top and have a series of burners arranged in the walls one above the other.

6824. Textron Inc. An apparatus for making metal articles. Comprising a frame, a die bed, reciprocating punch means complementary to each dies means for feeding the work piece to first die and transfer means, synchronized with the feeding means.

65825. Void.

65826. Ciba Limited. Process for the manufacture of indene compounds. Water is split off from a substituted 1-pyridyl-alkyl indene, or a 1-(pyriayl alkyl)-2 indene is reacted with a strong acid or base and esterified, or a 1-(pyridyl alkylidene)-indene is heated with a reducing agent and esterified or an indene is condensed with an alkenyl pyridine and the product is esterified.

NOVEMBER 14.

65827. W. & T. Avery Limited. Improvements connected with self balancing potentiometer system for use in association with weighing apparatus. (November 15, 1957.) [Addition to No. 61483.] Having means for increasing the voltage applied in bridge circuit across multi-stage potentiometer in second weighing operation by predetermined proportion relative to voltage applied during first weighing operation, and a circuit including feeding mechanism controlled by contacts associated with phase conscious circuit for controlling addition of second weightment to first weightment.

65828. Bendix Aviation Corporation. Improvements in or relating to friction producing devices. (October 27, 1958.) Having a friction producing surface concentric about an axis of rotation and a second member having a friction producing surface.

65829. Eimco Corporation. Web aligning means. A plurality of arcuate web supporting members, hub means mounting said supporting members for rotation web position sensing means and means responsive to said sensing means for moving the axially shiftable portion.

NOVEMBER 15.

65830. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Process for preparing vulcanised elastomers containing alpha-olefin polymers and copolymers. By heating with 1—15 per cent. of sulphur at 180—300° C. and the vulcanising the product.

65831. W. R. Boehme and J. Nichols. New series of bicyclo-alkanes and the corresponding alkenes. Reacting bicyclic primary or secondary amine with haloacyl halide or anhydrides.

65832. J. R. Geigy A. G. Process for the production of metallisable trisazo dyestuffs. Diazotising an amino monoazo dyestuff and then coupling with a monoazo dyestuff.

65833. Pending.

65834. Sterling Drug Inc. Process for preparing new monocarbocyclic aryl-carbamyl-lower-alkylamines. Reacting N-(monocarbocyclic aryl) carbamyl-lower-alkyl halide with 1, 5-iminocycloalkane or alkene in presence of acid acceptor.

65835. United States Steel Corporation. Fluidized-bed reactor. In which the discharge device comprises a vertical pipe located at the side of the feeder and extends from the bottom of the fluidised bed just above the partition to a height within the feedboard wall above the bed.

65836. Canadian Industries Limited. Improvements in or relating to polymer blends. (June 4, 1958.) Comprising a mixture of a copolymer of a vinyl monomer and at least one of the monomers selected from (1) a compound selected from styrene and alkylated styrenes and (2) an acrylic acid ester.

65837. Bata Shoe Company Private Limited. Shoe pressing machines. (December 27, 1957.) [Addition to No. 60539.] A pivotally movable pressing element mounted above the expansible pressing element the former being engageable with the latter to form a pressing cavity for a lasted shoe.

NOVEMBER 17.

65838. C. M. Sweet. A novel electronic organ and local station radio receiver combination using transistors or their equivalents. Including at least one transistor or equivalent electronic device, with or without a crystal diode, means for selectively receiving radio signals, means for selectively generating musical tones, and switching means for changing over from radio function to organ function and *vice versa*.

65839. Void.

65840. Void.

65841. Davinder Kumar Dhand. An improved steel yard. Pivoting graduated scale on knife edge projecting from horizontal member at top and having means for suspending the latter, means to indicate that it is horizontal means to adjust same to horizontal position and means to limit angular displacement of graduated scale at the free end.

65842. Automatic Telephone & Electric Company Limited. Improvements in or relating to mounting arrangements for electrical induction coils. (November 21, 1957.) A mounting arrangement for an electrical induction coil consists of a unitary plastic moulding having a rectangular plate with leg at each corner.

65843. The Wellcome Foundation Limited. Improvements in or relating to novel amidines and the preparation thereof. An aminoalkoxyarylene nitrile is converted to aminoalkoxyarylene amidine by known methods for such a conversion.

65844. British Titan Products Company Limited. Vapour phase oxidation. (November 20, 1957.) A halide vapour which reacts exothermically with oxygen, or oxygen containing gas is reacted with such gas in an empty chamber.

65845. British Insulated Callender's Cables Limited and British Transport Commission. A cantilever structure for a railway electrification system. Wherein the strut and tie member and at least the inner part of the registration arm each comprising a rod a tube fabricated from resin bonded glass fibre.

65846. J. R. Geigy A. G. Isoindolinones and processes for the production thereof. Reacting 1, 3, 3-trihalogeno-isindolenines with a hydroxyl compound.

65847. Imperial Chemical Industries Limited. Improvements in or relating to the manufacture of polymeric materials. (June 18, 1958.) Reacting polyisocyanates with polyethers and adding pigment into the reaction mixture in the form of a preheated paste with an organic liquid.

65848. Imperial Chemical Industries Limited. Improvements in or relating to compositions comprising benzene hexachloride. (December 2, 1957.) Comprising an admixture containing gamma benzene hexachloride and at least resin in intimate association.

65849. Licentia Patent-Verwaltungs-G.m.b.H. Step-control for electric motor drives. Comprises a control transducer, a look-transducer and rectifiers, the voltage being applied through control contacts.

65850. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to ferromagnetic materials more particularly for piezomagnetic vibrators and processes for the production of such materials. The composition corresponds to

29 to 47 mol per cent. NiO

3 to 20 mol per cent. CuO

0.5 to 2 mol per cent. CaO

50 to 52 mol per cent. Fe₂O₃.

65851. Cable Belt Limited. Improvements in or relating to rope-driven belt conveyors. (December 13, 1957.) Rope engaging means on the belt are spaced inwardly from edges thereof, the edge portions of the belt beyond the rope-engaging means being stiffened so as to be resistant to bending.

65852. Elektrophysikalische Anstalt Bernhard Berghaus. Surface treatment of bodies by glow discharge process. In which distribution of foreign materials diffused into the body surface is influenced by measures intended to increase the heat dissipation from the surfaces involved in the process and at the same time by increasing the discharge energy on these surfaces by the energy increase required for maintaining the predetermined temperature.

65853. Mrs. Brita Schlyter. Improvements in or relating to the manufacture of briquettes. Admixing binding agents of cokeable material in finely powdered fuel and heating the mixture and forming briquettes.

65854. Massey-Ferguson Inc., formerly named Massey-Morris-Ferguson Inc. Instrument for indicating slip in hydraulic couplings. (February 26, 1958.) Tachometer coupled to engine and having indicator manometer coupled to intake manifold engine and having movable index, the indicator and index being so calibrated that they bear specific positional relationship when load on hydraulic coupling for any engine speed causes it to operate at minimum efficiency and means to give visual indication when indicator and index depart from positional relationship.

65855. Bristol Aircraft Limited. Improvements relating to the manufacture of fiber-reinforced resin-bonded cellular articles. Surrounding core member by discrete fibres within enclosure and introducing liquid resin to penetrate therein and solidify.

65856. British Telecommunications Research Limited and Automatic Telephone & Electric Company Limited. Improvements in and relating to radio signalling systems. (November 21, 1957.) Each subscriber station includes means for cyclically scanning a plurality of radio channels of different wavelengths, the number of channels being less than the numbers of subscriber-stations.

65857. British Telecommunications Research Limited. Improvements in and relating to oscillation generators. (November 1957.) Comprises a multivibrator in which one of the translating devices is adapted to generate oscillating and at least two flip-flop circuits connected to the multivibrator.

65858. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of crystallized compounds of pyrrolidino-methyl-tetracycline. Subjecting a suspension of pyrrolidino-methyl-tetracycline to the action of an acid selected from the group of citric, tartaric, malic, malonic, cinouamic or succinic acid.

NOVEMBER 18.

65859. Pending.

65860. Westinghouse Brake & Signal Company Limited. Improvements in tractive armature electromagnetic relays. (November 28, 1957.) Provided with inverted U-shaped frame having one leg holding the tractive armature and the other forming a support for armature backstop.

65861. Void.

65862. Christani & Nielsen A/S. System of vertical projections on the sea floor. Each projection, held by own weight, extending upwards through zone nearest sea floor in which solid matter from latter becomes suspended in water and the top side of projection on beside terminates in horizontal edge, transverse to direction of waves, behind which is left water space to provoke on beside of projection creation of horizontal vortex to produce eddies to increase pick-up of solid matter from sea floor and keep it suspended.

65863. Reynolds Metals Company. Smoking tobacco and process for producing the same. A fluffy substance suitable for controlling the combustion temperature of tobacco and materials combusted therewith which contains fine particles of hydrous alumina.

65864. The British Thomson-Houston Company Limited. Improvements in and relating to circuit arrangements for starting discharge lamps. (November 22, 1957.) Having an auxiliary electrode near the cathode of the lamp connected to a high voltage impulse starting circuit.

65865. Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain, Chauny and Cirey. Process and apparatus for making sheets, boards or other shaped pieces from thermoplastic mineral fibres. Subjecting major surfaces of a mat to an increase in temperature and to tension to cause reduction in thickness and size.

65866. A H. Chotani and S. M. I. Ali. Improvements in or relating to a process and an apparatus for the production of water-proof sheets. Fabric steeped in molten water-proofing composition, then pressed under heated rollers, dried in air and quenched under spray of water.

65867. S. Ramanujam and A. Ramamurthy. Epoxy Resins from Cashew Nut Shell Liquid Resins and the surface coating compositions therefrom. Reacting aldehyde condensation resin of cashew nut shell liquid with epichlorohydrines.

65868. Gelusema Anstalt. Improvements in or relating to Process of and Apparatus for Injection-Moulding of Self-Hardening Synthetic Resins. Synthetic resin is held separate from a moved body defining surfaces by flexible means which are non-reactive with respect to the self-hardening synthetic resin throughout the range.

65869. Tallon Limited. Improvements in or relating to ballpointed writing instruments. Provided with a base seating in a housing for the ball and an inturned lip for retaining the ball on the base seating.

65870. Beecham Research Laboratories Limited. Improvements in or relating to basic esters and salts thereof. (November 28, 1957.) Alkyl-phenyl-cyclohexyl-glycollate is reacted with 1-alkyl-2-hydroxymethyl pyrrolidone glycollate.

65871. C. F. Boehringer & Soehne G.m.b.H. Solutions of chloramphenicol in aqueous liquids and process of making same. Aqueous solution of chloramphenicol containing a lower ester of chloramphenicol is dissolving intermediary.

NOVEMBER 19.

65872. Imperial Chemical Industries of Australia and New Zealand Limited. Adhesive for polythene, and method of using same. (November 29, 1957.) Comprising a polyisobutylene, a tertiary amine, a polyethylene glycol, a condensation product formed by condensation of an organic isocyanate with a

hydroxy containing polyester and an organic isocyanate in a amount stoichiometrically equivalent to the amount of polyethylene glycol.

65873. J. R. Geigy A.-G. Process for the production of new N-heterocyclic compounds. Reacting dibenzo [b.f.] azepine with phosgene and treating product with a ammonia or alkyl secondary amine.

65874. J. R. Geigy A.-G. Process for the production of new N-heterocyclic compounds. Reacting 5-(2' -3'-epoxy-propyl)-5-dibenzo [b.f.] azepine with alkyl secondary amine.

65875. British Insulated Callender's Cables Limited. Improvements in or relating to cantilever structures for use in overhead electrification systems for railways. (December 3, 1957.) Comprising an inclined strut, a tie member and an inner registration arm, each of resin bonded glass fibre.

65876. Fuji Kagaku Kogyo Kabushiki Kaisha. Process for the manufacture of magnesium aluminosilicate for medical uses. Mixing an aqueous aluminate solution having a concentration of alumina content of 1.7 to 6.9 per cent. with an aqueous sodium silicate solution having a concentration of silica contents of 2.0 per cent. to 8.0 per cent. in a mol ratio of more than 1 : 2 of Al_2O_3 to SiO_2 stirring to obtain sodium aluminosilicate and reacting with magnesium hydroxide.

65877. Dyckerhoff & Widmann Kommanditgesellschaft. Manufacture of railway sleepers of pre-stressed concrete. Wherein a matrix inserted into a mould through openings in its walls defines passages for Hair-pin-shaped reinforcements in planes at right angles to each other.

65878. Sandoz Ltd. Isonicotinoyl hydrazones. (November 20, 1957.) [Addition to No. 64734.] Condensing N-alkyl piperidone with carboxylic acid derivative.

65879. Cognate with Appln. No. 65367.

65880. E. K. Cole Limited. Improvements in or relating to the mounting of terminal stakes on a substantially rigid supporting member of electrically insulating synthetic plastic material. (December 4, 1957.) In which the stakes are utilized to pierce their own locating holes in the supporting member.

65881. Foster Transformers Limited and R. E. Jennings. Improvements in electrical coil windings. In which one face of the foil strip has an insulating oxide coating and the edges of the coil are enclosed by a protective coating of a material capable of forming a hard and heat resisting insulating covering.

NOVEMBER '20.

65882. R. P. Nair. Improved coventry die. Consisting of a body of the die having a dove tailed gap corresponding to the shape of the thread forming bit to be inserted and having a narrow slit and a threaded hole.

65883. A. H. Jamal. Improvements in or relating to Brassieres. Each of the pouches of the brassive is provided with an elastic band at the base thereof.

65884. NSU Werke Aktiengesellschaft. Rotary-piston internal combustion engine. The ratio between greatest distance and the smallest distance from the centre of the outer body to its periphery is between 1.25 and 1.5 in the event of a two-arched inner contour and between 1.2 and 1.32 in the event of a three-arched inner contour.

65885. A. B. Gronberg. A device for cutting straw, green fodder and the like into pieces, said device cooperating with a conveyor fan. Casing of rotor with its feeding opening connected to discharge opening of casing of conveyor fan for conveying of material to be cut to cutting apparatus and edge of stationary knives directed downwards on the side of rotor where knives of rotor move upwards.

65886. Frimatic, Camps & Cie. A shelf for refrigerators. Characterized in that it is constituted by a monobloc grid made by moulding of a thermo-setting plastic material.

65887. M. R. Fields. Improvements in or relating to bottle closures. Closure having a first piece adapted to engage over the screw threads of the bottle neck.

65888. McGraw-Edison Company. Electrostatic filter for air conditioning units. Including airpermeable filter medium in the path of air flow to which an electric charge is delivered from an electric charge producing means, and dispersed thereon.

NOVEMBER 21.

65889. Void.

65890. Council of Scientific and Industrial Research. A method for the conversion of higher tar-acids to lower phenols. Catalytically hydrogenating in two stages with ferric chromate on pumice a cobaltous oxide catalyst successively.

65891. Council of Scientific and Industrial Research. A process for the conversion of coal tar or coal tar fractions to high speed diesel oil and gasoline. Hydrogenating at 300—450° C., 100—200 atm. pressure and oil space velocity of 0.5 cc—1 cc of oil with catalyst of sulphide or oxide or sixth group of hydrogen space velocity of 1000—1500 cc of H₂/cc of catalyst/hr.

65892. Cilag Limited. Process for the production of N-(p-Toluenesulphonyl)-N'-(β-Methylmercaptoethyl)-Urea. Reacting C₆H₃R₁R₂. SO₂. N. CO. NH.R₃-x with R₄-Z-H where R₁, R₂ are hydrogen or alkyl; R₃ is alkylene, Z is oxygen or sulphur and R₄ is alkyl radical.

65893. Societe D'etudes et de Participations Eau, Gaz, Electricite, Energie, S. A. A power plant comprising at least one free-piston or semi-free piston engine. One side of the compressor piston constitutes a cushion which stores energy during the combustion stroke and returns the same to the pistons on the compression stroke and the plant has a stabiliser for controlling the air in the cushion.

65894. Stamicarbon N. V. Preparation of calcium carbide in a shaft furnace. Producing calcium carbide in a shaft furnace by use of oxygen rich blast, the charge consisting of carbon and lime containing material.

65895. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Process for shaping isotactic polystyrene and relative articles. The polymers are cooled from a temperature equal to or higher than their melting point to a temperature lower than or equal to room temperature at such a rate as to prevent their crystallisation.

65896. Consortium Fur. Elektrochemische Industrie G.m.b.H. Process for the manufacture of carbonyl compounds. (September 2, 1958.) In which an organic compound containing one or more carbon-to-carbon double bonds and one or more hetero atoms is treated with an aqueous solution of a compound of a metal of the platinum group at a temperature within the range 0 to 250° C.

NOVEMBER 22.

65897. Union Carbide Corporation. Pigmented polyethylene composition and process therefor. Forming a mixture of carbon black, particulate polyethylene and water and fluxing the mixture until all the water is eliminated.

65898. Union Carbide Corporation. Polyethylene composition pigmented with carbon black. Admixing under conditions of high shear polyethylene and a mixture containing between 1 to 9 parts by weight of water per part of carbon black in an amount sufficient to yield 10 to 150 parts of carbon black per 100 parts by weight of polyethylene, at a temperature sufficient to flux the polyethylene and remove all water from the mixture.

65899. Pending.

65900. Standard Telephones and Cables Limited. Improvements in or relating to code converting arrangements for pulse code modulation systems.

(March 27, 1958.) [Addition to No. 62492.] Using two condition trigger devices comprising windings associated with cores of magnetic material having a B-H characteristic curve with sharp discontinuities.

65901. Montecatini Societa Generale Per L'industria Mineraria E. Chimica and K. Ziegler. Method of purifying solid high molecular weight polymers of alpha-olefins, prepared with catalysts on the basis of metallic compounds. Polymer is subjected to the action of an organic solvent having a swelling action on the high molecular weight polymer and a solvent action on other polymer fractions and then subjected to the actions of a mineral acid.

65902. Montecatini Societa Generale Per L'industria Mineraria E. Chimica. Improved Elastomeric Products. Covulcanising hydrocarbon elastomer with reinforced fibres formed with alpha-olefin polymers.

65903. Pending.

65904. Void.

65905. Pending.

65906. Farbenfabriken Bayer Aktiengesellschaft. Novel Dyestuffs. (October 2, 1958.) An organic dyestuff containing at least one and not more than four sulphonamide groups is reacted with a trihalotriazine.

NOVEMBER 24.

65907. Void.

65908. Bataafse Petroleum Maatschappij. Process for the polymerization of olefins. In catalytic polymerisation of olefins, the catalyst is produced by treating a composition of oxides of hexavalent Cr, Al and Si with a saturated hydrocarbon.

65909. Bataafse Petroleum Maatschappij. N.-V. Treatment of hydrocarbon fuels. An aromatic concentrate is subjected to desulphurising hydrogenation at an elevated temperature and the product is hydrogenated further at a lower temperature until its atomic content falls below 10 per cent. by weight, and fractionated to obtain a fuel, b.p. 160—345° C.

65910. Benjamin Foster Company. Improvements in or relating to fire-retardant intumescent coating compositions. (July 31, 1958.) Composition comprises a dispersion of unexfoliated vermiculite in a permanently thermoplastic vehicle which will char but will not itself support combustion.

65911. Dorr-Oliver Incorporated. Water driven clarifier. (November 26, 1957.) Characterized by the provision of an annular flume surrounding the tank and around which liquid is caused to flow in one direction to drive the rake mechanism.

65912. MERCK & Co., Inc. Process of producing 3:4-dihydro-1, 2, 4-benzothiadiazine-1, 1-dioxide compounds. Reacting disulfamyliniline compound with a compound selected from an aldehyde, an acetal, a ketone and a ketal.

65913. J. P. Kulkarni. A water lifting machine. First bucket is lifting water while other is lowered and when the first bucket has emptied out its water, the other starts rising up and the first going down.

65914. F. Hoffmann-La Roche & Co. Aktiengesellschaft. A process for the manufacture of polyene carboxylic acids and esters thereof and novel polyene carboxylic acids and esters thereof. (August 28, 1958.) Converting a phosphonium halide into the corresponding phosphorane and condensing the latter with an aldehyde.

65915. F. Hoffmann-La Roche & Aktiengesellschaft. Process for the manufacture of nuclearly unsaturated ionones. Cyclising a pseudoionone with an acidic cyclising agent in a liquid hydrocarbon medium.

65916. Egyesult Gyogyszer Es Tapszergyar. Process for the separation of the optically active isomers of racemic threo- β -(p-nitrophenyl)-serine ester.

Reacting racemic threo- β -(p-nitrophenyl)-serine-n-butylester with d-camphor-sulphonic acid and separating the de-camphor-sulphonates.

65917. Void.

65918. Joy Manufacturing Company. Power operated steering mechanism for six-wheel articulated shuttle car. Comprising steering linkage means extending from each steering wheel toward articulated end of the car body section.

65919. Joy Manufacturing Company. Improvements in Mine haulage vehicles. Comprising articulated body parts forming an elongated vehicle supported at its ends and the point of articulation by wheels body parts being connected by pivot means to tilt in vertical planes.

65920. Joy Manufacturing Company. Improvements in suspension devices for vehicle wheels. Includes pivotal mounting means for vertical movement of vehicle wheels and cross-connecting means guided by the vehicle body.

65921. Joy Manufacturing Company. Separating device. An elongated core member supported within shell and defining a flow path have an up-stream portion and a down-stream portion of configuration to decrease an increase cross-sectional area of flow path respectively.

65922. Montecatini Societa Generale Per L'industria Mineraria E Chimica and K. Ziegler. Method and apparatus for improving the mechanical characteristics of thermoplastic films. Characterized in that the planar orientation of the macro molecular chains is realized by stretching a film provided with 'Selvages' as its edges.

NOVEMBER 25.

65923. Void.

65924. A. Thomas. Apparatus for the treatment of liquids with gases or by dialysis through a membrane. Including an enclosed space having a microporous wall forming the membrane, means for injecting gas under pressure into the said space, an orifice for introduction of aqueous treatment liquid into said space, means for feeding liquid to be treated to the outer surface of the microporous wall, a device for discharging the aqueous liquid from the enclosed space and a device for discharging the gas from the said space.

65925. Rohm & Haas Company. Method for producing a coating composition adapted to produce improved, clear, Glossy coatings. Wherein 65—90 parts by weight of a water-insoluble linear addition homopolymer of copolymer having a T_g value of less than 30°C . is mixed with 10—35 parts by weight of an ammonium or complex zinc ammonium salt.

65926. Fords (Finsbury) Limited, and L. C. Snelling (London) Limited. Improvements in or relating to closing and sealing bottles and other receptacles. (November 12, 1956.) [Addition to No. 60963.] [Divided out of No. 60963 and ante-dated to July 2, 1957.] A resilient or deformable sealing compound, such as a rubberised compound is applied in the form of blobs into internal radial channels of corrugations.

65927. The General Electric Company Limited. Improvements in or relating to circuit arrangements for operating low pressure electric discharge lamps. (December 12, 1957.) [Addition to No. 64928.] The oscillator circuit includes, a transistor amplifier incorporating a single transistor having emitter collector and base electrodes.

65928. Imperial Chemical Industries Limited. Polymerisation catalysts. (December 6, 1957.) Compositions obtained by treating a compound of a transition metal (metals occupying the 4th to 10th places after the inert gases in one of the long periods of the periodic system of element) with a compound of the formula $R_1R_2AlOR_3$, where R_1 , R_2 and R_3 may be alkyl, cycloalkyl, aryl or aralkyl hydrocarbon groups and A is a divalent aromatic hydrocarbon radical.

65929. Void.

65930. D. M. King. Improvements in or relating to chain guards for electrically operated hoist pulley block. (November 26, 1957.) Incorporating two rockable guard elements arranged about the hoist block sprocket.

65931. U C L A F. Improvements relating to the purification of vitamin B₁₂. Reacting a water soluble cuprocyanide of vitamin B₁₂ with a water soluble zinc salt so as to precipitate a zinccuprocyanide vitamin B₁₂ complex.

65932. U C L A F. Improvements relating to the purification of vitamin B₁₂. Reacting a water soluble cuprocyanide of vitamin B₁₂ with a water soluble cupric salt so as to precipitate a cupric cuprocyanide vitamin B₁₂ complex.

65933. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of heterocyclic substituted morphinanes. Reacting 3-hydroxy-morphinan with a compound of the formula $\text{CH}_2=\text{CH-R}$, wherein R is 6 membered unsaturated heterocyclic ring.

65934. The Gas Council. Improvements in and relating to the discharge of molten ash from solid fuel consuming appliances. Ash discharged from reaction zone into a conduit which is internally water cooled.

65935. The Gas Council. Improvements in and relating to the discharge of molten ash from gasification generators. (November 28, 1957.) Discharging molten ash from pressure operated gasification generator having an inlet for the same, wherein gas is passed into the reaction chamber through the outlet at a velocity sufficient to prevent molten ash from entering the outlet.

65936. Ciba Limited. Process for the manufacture of new phenoxy-alkylamines and pharmaceutical preparations containing same. Comprising reacting ester of compound of type β -(meta-n-butoxyphenoxy)-ethanol with an amine like n-butyl amine.

65937. Commercial Bureau. Improvements relating to flexible micanite insulating tape. One or more layers of mica splittings in boon form interposed by means of adhesive composition between the contacting faces of two parallel continuous lengths of sheet material.

NOVEMBER 26.

65938. The English Electric Company Limited. Improvements in and relating to electrical bushings assemblies. (December 9, 1957.) Bushed conductor held in ceramic insulator in compression between detachable end-caps.

65939. Klockner-Humboldt-Deutz Aktiengesellschaft. Apparatus for heating fine-granular material, particularly cement raw material. (September 26, 1958.) Comprising a vertical sequence of mechanical dust-from-gas separators each having an inlet and a gas outlet and a downwardly extending dust discharge pipe, respective gas conduits connecting the gas outlet of each lower separator with the inlet of the next upper separator whereby separators form a continuous ascending flow path for gas.

65940. Commissionaria Farmaceutica Milanese CFM S.r. l. 4-Nor-Butyl-2-Phenyl-pyrazolidine 3:5 Diones and the preparation thereof. Condensing of diethyl ester of n-butyl-malonic acid and phenyl hydrazine at 170°—180° C. for at least 12 hours.

65941. K. Sugan & Nippon Shinnetsu Kogyo Kabushiki Kaisha. An apparatus for embodying a method of utilising combustion heat of the coal of low quality. Comprising a heating chamber, atleast one combustion container and atleast one heat exchange container and a heat carrier packed in the heating chamber to surround the containers and consisting of a medium selected from inorganic salts.

NOVEMBER 27.

65942. Void.

65943. Void.

65944. Void.

65945. ACF Industries Incorporated. Diaphragm fuel pump. Annular bright portion has a concave surface engaged by resilient means to bias the bright portion axially of the housing.

65946. N. V. Philips Gloeilampenfabrieken. Improvements in or relating to high-pressure mercury vapour discharge lamps having a luminescent screen. Red luminescent substance having molecular composition which satisfies the formula:



65947. N. V. Philips Gloeilampenfabrieken. Improvements in or relating to transistor circuit arrangements with current distribution. Having a first transistor which is connected as an alternating current supply, supplying current to the emitter of a second transistor and means to produce a.c. voltages at the collector and base electrodes of the second transistor.

65948. N. V. Philips Gloeilampenfabrieken. Improvements in or relating to circuit arrangements for amplifying a supplied signal. The signal to be amplified is fed to a control electrode of a discharge tube of which the cathode is connected via a resistor, which may be decoupled, to the negative terminal of supply voltage source and also connected via an element having a non-linear current-voltage characteristic curve to the positive terminal of the said source.

65949. Cleveland Product Company Limited. Improvements relating to the production of ossein gelatine. (November 28, 1957.) Characterised in that cleaned and partly degreased bone fragments are circulated in a flow of hot water.

65950. General Electric Company. Magnetic materials. [Addition to No. 56856.] Characterized in that the particles are provided with a protective coating of an antimonide.

65951. General Electric Company. Magnetic materials. [Addition to No. 56856.] Characterised in that the particles are embedded in a matrix of lead or a lead-antimony alloy containing upto about 2 per cent. by weight of antimony the matrix binding particles together by a non-magnetic material

65952. Void.

65953. Asta-Werke Aktiengesellschaft Chemische Fabrik. New phosphoric and thiophosphoric acid ester amides. [Addition to No. 59534.] N:N-bis-(β -chloroalkyl)-phosphoric acid amide is reacted with bis-(β -hydroxy alkyl)-amine.

65954. Veb Erste Maschinenfabrik Karl-Marx-Stadt. Roller for the pressure treatment of cloth gores. Roller for the pressure treatment consists of a core which serves as a load receiver and a cylinder arranged flexibly around it by means of pressure fluid.

NOVEMBER 28.

65955. Void.

65956. Void.

65957. Aktiebolaget Kabi. Improvements in or relating to the manufacture of lower alkyl substituted tertiary pentanol carbamates and compositions thereof. Reacting the lower alkyl substituted tertiary pentanol with a reactive carbamic acid derivative or by reacting a corresponding aromatic tertiary pentanol ester with ammonia or by subjecting a corresponding unsaturated alcohol carbamate to hydrogenation.

65958. H. Umezawa, M. Ueda and K. Maeda. Process for producing an antibiotic kanamycin. [Addition to No. 61532.] Cultivating a strain of streptomyces Kanamyceticus in an aqueous carbohydrate solution containing nitrogenous nutrient under submerged aerobic conditions.

65959. Brevets Aero-Mecaniques S. A. Improvements in or relating to spinning machines and the like. Comprising a base elements which directly support at least one spindle supporting rail.

65960. Brevets Aero-Mechaniques S. A. Improvements in spinning and like textile machines. Provided with spindles positively driven by a spindle supporting rail which forms a gear case for the spindle driving gearing and with rings adapted to co-operate with the said spindles.

65961. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Recemisation catalyst and process for the manufacture thereof. (November 29, 1957.) Treating RANEY cobalt with dilute aqueous solution of copper salt.

65962. Socony Mobil Oil Company, Inc. Depth Measuring Apparatus. Comprising means for generating a length function which varies with length of cable fed out and means for generating or function representative at least of a fraction of the tension on the cable adjacent said measuring device.

65963. The Jay Engineering Works Ltd. A.C. fans. Wherein the rotor comprises laminations die cast with an outer ring and two parts of the cover extend to completely encase the outer ring so that the final outer shape of the fan body is given by the covers encasing said outer ring.

65964. Void.

65965. The Jay Engineering Works Ltd. A.C. fans and particularly, method of fitting the condenser therein. The stator having a housing formed therein to receive the condenser.

65966. The Jay Engineering Works Ltd. Improvements in or relating to A.C. fans. [Divided out of No. 65011 and ante-dated to August 20, 1958.] The upper and lower bearings are held in brackets which at their outer ends are secured to the rotor.

NOVEMBER 29.

65967. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Process for the preparation of vulcanised products. Comprises mixing amorphous polymers of alpha olefins with an alkyl, an alkylinul or acyl peroxide or a perester and heating to a temperature of from 130 to 180° C.

65968. Void.

65969. C. Cecil and S. C. Farmer. Internal combustion engines. Upper surface of valve body coming in contact with corresponding surface of valve seat is depressed.

65970. Jay Engineering Works Ltd. A.C. ceiling fans. [Addition to No. 65966.] Bearing housings are formed as independent units and secured to the brackets.

65971. Aktiebolaget Bofors. Improvements relating to liners for ball and tube mills. Comprises bars of different thicknesses twisted to helical form and mounted side by side on the mill casing.

65972. International Business Machines Corporation. Improvements in and relating to expansible cartons. (October 31, 1958.) Formable from a single blank comprising a bottom panel having a pair of side walls upwardly foldable.

65973. The Dow Chemical Company. Process for making a Latent-Foaming Polymeric Composition. A mixture of a heat plastified thermoplastic polymer and a volatile organic compound under superatmospheric pressure is supplied to a mixing and cooling zone, then advanced towards an extrusion orifice, extruded into a zone of atmospheric pressure and the extruded material is contacted with an inert liquid to cool it to a temperature below 50° C.

DECEMBER 1.

65974. Void.

65975. Void.

65976. Council of Scientific and Industrial Research. Improvements in or relating to suspension polymerization of vinyl monomers. Heating three phase suspension of (i) aqueous phase, (ii) monomer phase with polymerisation initiator and (iii) solid phase of suspension stabiliser at 40-150° C. with stirring and containing auxiliary suspension agent like oxidised sugarcane wax.

65977. Council of Scientific and Industrial Research. Rubber-base-adhesive. Reacting liquid rubber with a mixture of phosphorous oxychloride and trichloride.

65978. Ames Irrigation Export Pty. Limited. Sealing ring and improved coupling incorporating same. Whereof the legs are free to expand radially outwardly as they embrace the wall of the cylindrical member.

65979. Pending.

65980. J. S. Youngner and H. Noll. Improvements in or relating to the preparation of a composition comprising a virus adsorbed into a lipid. Virus and accompanying contaminants are contacted with a lipid, and the lipid with adsorbed virus is separated.

65981. Void.

65982. Helena Rubinstein. Cosmetic preparation. Comprising a cosmetic base, one or more estrogenic hormones and progesterone.

65983. Dr. Ing. E. H. J. Dichter. A feed mechanism for glass tubing. Characterised in that the tube drops through the open jaws of the clamping mechanism on to a resilient adjustable stop.

65984. E. I. du Pont de Nemours and Company. Bulky yarn comprising fibres with ring-like loops and projecting fiber ends and process for its preparation. A plurality of discontinuous fibres individually convoluted into coils, loop and whorls at random intervals along their length and at irregular spacing on different fibers.

DECEMBER 2.

65985. Void.

65986. Void.

65987. The Wellcome Foundation Limited. Improvements in and relating to quaternary ammonium compounds and the preparation thereof. (December 18, 1957.) Treating N-alkyl-N-2-phenoxyalkyl-N-2'-thenyl-amine with methylating agent.

65988. N. V. De Bataafsche Petroleum Maatschappij. Process for the polymerization of olefins, the polymers obtained thereby and shaped articles made from such polymers. In presence of inorganic solid material oxides of aluminium and silicon having heterogeneously distributed therein catalytical active components, e.g., chromium oxide.

65989. The British Oxygen Company Limited. Preparation of liquid hydrogen. (December 11, 1957.) Subjecting gaseous methane to thermal decomposition to produce gaseous hydrogen which is liquified, part of the cold required for such liquefaction being derived from vaporisation of liquid methane.

65990. Chas. Pfizer & Co., Inc. Process for the preparation of amides and the amides so prepared. An amine is reacted with a lower alkyl ester of a hydrazine compound at a temperature upto 200° C.

65991. Pending.

65992. R. Sonnevile. Improvements in a rail-fixing device. Comprises a sleeper, attachments for holding the rail on the sleeper and fixing bolts passing through said attachments and mounted for rocking in the sleeper transversely to the line on which the rail rests.

65993. M. V. D. Velde. Improvements in printing apparatus. (October 13, 1958.) Comprising casing, printing roller with rubber or like plate stereo-

type having printing characters proud of it, elastic rings fitted on the printing roller, spindle on which the latter is rotatably mounted, spring biasing means acting upon the printing roller, freely rotatable ink rollers and second spring biasing acting between printing roller spindle and the side plates.

65994. Void.

65995. Fielden Electronics Limited. Improvements relating to transistor oscillators and to capacity sensitive circuits comprising such oscillators. (December 5, 1957.) Wherein a second inductor is connected in series with the output circuit of the transistor across the output terminals of the bridge.

65996. Kemball, Bishop & Company Limited. Improvements in or relating to the Preparation of Lactone Salts. (December 9, 1957.) Treating a solution of 1:4-glucosaccharolactone in an organic solvent with an alkali metal, alkaline earth metal or ammonium salt of a weak organic acid in solution.

65997. Walewerk Neviges, Willy H. Schlieker & Co. A method and device for separating hot rolled metal sheets. Separating means is inserted between the individual metal sheets at the opened out corner, a magnetic flux is caused to premeate the stack of metal sheets in such a manner that the corner parts of the metal sheets at the opened out corner of the stock have the same polanty.

65998. Rototast Electronic Controls Limited. Improvements relating to apparatus for controlling the operational movement of machines. Apparatus is provided with pelers connected in electric or electronic circuit and also is capable of being guided along an electrically conductive track with felers on contact therewith.

65999. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Butadiene polymers and their preparation. (December 1, 1958.) Polymerising butadiene in presence of a catalyst formed by contacting organo-metallic compound of a metal of Group II or III of periodic table with a metal of Group VIII.

66000. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for producing fast dyeings or prints on fibres or foils of aromatic polyesters, especially of polyethylene-glycol terephthalates. Treating with dioxazine dyestuff obtainable by ring closure from diarylamino-benzoquinone.

66001. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs insoluble in water and process for their manufacture. Coupling with arylamide of 2, 3-hydroxynaphthoic acid the diazonium compound, from ortho-aminoazo compound and the diazonium compound from p-aminoazo compound.

66002. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning " β -Hydroxy-butyric acid amide derivatives and process of preparing them". Reducing acetoxyacetic acid amide and introducing into hydroxy group in β -position of the compound obtained by acetylation methods.

66003. Egyesult Gyogyszer Es Tapszergyan. Process for the preparation of 1-phenyl-2-(O-carboxybenzoylamino)-1:3-propanediols. Benzoyl (O-carboxybenzoylamino)-acetic acid ester or a salt thereof is reacted with an alkali metal borohydride.

66004. Ciba Limited. New hydroxy-ketones and process for their manufacture. Reacting dihalide of cyclic dicarboxylic acid with compound of benzene series in presence of Friedel-Crafts catalyst.

66005. F. L. Smioth & Co. A/S. Improvements relating to rotary kilns. (December 23, 1957.) A rotary kiln, a part of its length serve as a heat exchanger, the said part being divided into compartments through which the material to be burnt travel.

66006. Kugelfischer Georg Schafer & Company. Two-piece roller cage for roller bearings and method of connecting its parts together. Guide mem-

ber is formed by a closed annular sleeve-like member of substantially cylindrical shape comprising two marginal outer portions and a plurality of parallel portions connecting latter.

66007. Joy Manufacturing Company. Improvements in apparatus for admixing two fluids of which one may be a liquid or for bringing into contact one or more gases with a liquid and for separating foreign matter suspended in the gaseous fluid. Comprising a shell with passage for a fluid means for introducing another fluid into the passage and an admixing means including elongated members normal to flow of fluid arranged across the passage such that projections of them on a plane perpendicular to axis of passage overlap and define curved fluid paths having total cross sectional area as large as that of the passage.

66008. Ciba Limited. A method of protecting cellulosic fibrous materials against climatic influences. Fixing light-protective pigment on fibre with hardenable aminoplast dispersed in impregnation liquor and then made water-insoluble.

66009. Void.

66010. M. Amsler. Recording apparatus. Rotary member with flexible tongues, stationary member with a rib and an interruption and controlled member movable between two end positions in one of which deflecting tongues and causing them to slide over the rib until interruption is reached and in the other of which does not deflect the tongues and permits same to move along and beneath the rib.

DECEMBER 3.

66011. Void.

66012. Habeeb Gulamhussain Alladin. Planetary Type Windmill. Plurality of radial arms extending from a central vertical axis and carrying airfoils at their ends.

66013. Void.

66014. Pending.

66015. Pending.

66016. Pending.

66017. Pending.

66018. Miles Laboratories, Inc. Diagnostic composition. Comprising a bibulous carrier impregnated at two or more portions thereof with an indicating composition, separated by a barrier portion.

66019. British Insulated Callender's Cables Limited. Improvements in or relating to dies for enamelling machines. (December 13, 1957.) [Void after publication.] For removing excess enamel from a travelling wire coated with liquid enamel by a circumferentially grooved applicator roll, a scraper comprising a prismatic block of metal or other rigid material having along one edge a cylindrical surfaced groove adapted to seat on the surface of the applicator roll.

66020. Precision Mecanique Labinal. Improvements in devices for driving, especially alternators, at substantially constant speed from a variable-speed shaft. (June 18, 1958). Comprising essentially a coupling by a differential which is driven directly by the driving shaft and one of its element is braked.

66021. Schnellpressenfabrik Aktiengesellschaft Heidelberg. Improvements in or relating to cylinder printing machines. Having a reciprocating flat impression forms and a curved forms connected in front thereof relative to the direction of rotation of the sheet.

66022. Patra Patent-Treuhand-Anstalt. Hydrostatic drive. Wherein the compensating locks are provided with eccentric adjustment rings for the shaft bearing of the rotor of the said locks.

66023. K. Singh. Improvements in or relating to bed-steads particularly in relation to their weaving. [Divided out of No. 63528 and ante-dated to March 25, 1958.] Spokes are introduced from outside of an arm to the opposite arm one end of the spoke is held against one arm and the other end is secured to another arm by nipple or such means.

66024. K. Singh. Improvements in or relating to bed-steads. [Divided out of No. 63528 and ante-dated to March 25, 1958.] Near the foot end of a bed-stead is fitted a frame which is hingedly mounted at its lower ends to adjust the position.

66025. The Tata Iron and Steel Company Ltd. Method of manufacturing rakes and rakes so made. Employing a flat bar with a thicker section in its middle, rolling the same, excluding from rolling a small part for forming eye, trimming, punching and fluting prongs.

66026. K. D. Shroff and C. C. Shroff. Isolating camphor. Raw material is treated with aqueous alkali under heat to produce a liquid and a vapour phase and then camphor is isolated from the vapour phase.

66027. K. D. Shroff and C. C. Shroff. Isolating camphor. Camphor present in raw material is dissolved in C. cl₄ under heat and filtered and then the solvent is removed by distillation to produce a residue of camphor.

66028. Void.

66029. Void.

DECEMBER 4.

66030. Babcock & Wilcox Limited. Improvements in pulverising mills. (December 6, 1957.) Including an upper non-rotary grinding ring and a lower rotary grinding ring, means resiliently urging said upper ring towards said lower ring.

66031. Metallurgical Processes Limited and The National Smelting Company Limited, carrying on business together in the Bahamas under the name and style of Metallurgical Development Company. Improvements in or relating to the blast furnace smelting of zinciferous materials. Blast furnace smelting of zinciferous materials, the slag produced contains not less than 9.7 per cent. alumina and not greater than 17.7 per cent., lime 22-36 per cent., silica 20-31 per cent., the sum of lime and silica contents is between 47.0-64 per cent.

66032. Veb Fettchemie. Process for the production of Inorganic salts of reduced Hygroscopicity. Treating the solid salt with its saturated solution containing as added materials water-insoluble partial esters of polybasic alcohols.

66033. The India Electric Works Ltd. A.C. Ceiling Fans. Comprising a pair of covers of sheet metal with annular seatings inside for seating the upper and lower edges of rotor and logs of flanges at cooperating edges of covers, having holes for connecting them by screws and nuts.

DECEMBER 5.

66034. Societa' Farmaceutici Italia. Diaminonitropropiophenones and process for their preparation. A mole of ammonia or a primary or secondary amine is reacted with one mole of an acylamino nitroacrylo-phenone.

66035. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of polyene dicarboxylic acids and esters thereof. (August 28, 1958.) Hydrogenhalide is split off from a phosphonium salt, the resulting phosphorane is condensed with a dial, triaryl-phosphine oxide is split off from the product and if desired the product is hydrogenated, isomerised and hydrolysed.

DECEMBER 6.

66036. Automatic Telephone & Electric Company Limited. Improvements in or relating to bi-stable trigger circuits. (December 7, 1957.) Comprising

a pair of cross-coupled transistors and or pulse-input, element including a third transistor to the base of which input pulses are applied to cause the circuit to change from one condition of stable equilibrium to the other.

66037. Montecatini Societa Generale Per L' Industria Mineraria E Chimica and K. Ziegler. Improvements relating to the preparation of alpha-olefin copolymers. With catalyst formed from organo-metallic compounds of metal of groups I, II or III with hydrocarbon soluble compound of transition metal of groups IV, V or VI of periodic table at 30° C.-100° C.

66038. Pending.

66039. R. R. Pardasani. Improvements in or relating to locks. Comprises a locking bar and at least a pair of tumblers which operate in coming into engagement and disengagement for locking and unlocking respectively.

DECEMBER 8.

66040. M. R. R. Row. Degree-shift-key mechanism for a typewriter. [Divided out of No. 62188 and ante-dated to November 5, 1957.] Arrangement being such horizontal projection of the degree shift-key lever comes over the existing shift key lever for bringing down the shift-key when degree-shift-key is pressed.

66041. Void.

66042. J. P. Birdi. A magnetic soap-saver. Having a plate to which is attached a bracket holding a magnet which protrudes therefrom so as to hold on to it a cap made of a paramagnetic material pressed into the soap.

66043. H. Behera. A process of manufacturing fibrous articles made from fibrous and pulpy matters with cement. Fibrous articles made from fibrous and pulpy matters incorporated with a hydraulic cement and a paste forming substance.

66044. Bataafse Petroleum Maatschappij. Polyphenyl ether lubricating compositions. Consisting of a mixture of two or more polyphenyl ethers wherein the mixture has an average of 3 to 8 phenyl radicals per molecule.

66045. Pending.

66046. Pending.

66047. Accles and Pollock Limited. Apparatus for use in the drawing of metal tubes. (February 10, 1958.) Comprising a reciprocatory head consisting of two parts interconnected by a pair of spring loaded toggle links one of the parts being adapted for attachment to at least one mandrel which extends through the other part.

66048. Farbenfabriken Bayer Aktiengesellschaft. Process for reduction with boron hydrogen compounds. (October 9, 1958.) Reducing with hydrogen boron compounds in the presence of a catalyst.

66049. Sudhir Lal Mukherjee, C/o Albert David Limited. A process for manufacture of sulphonamide derivatives. Reacting $R\text{SO}_2\text{NH}_2$ with disubstituted urea $R''\text{NHCO}\text{NHR}''$ when $R, R' \pm R'$ are phenyl, alkyl & nitro radical respectively.

66050. Western Electric Company, Incorporated. Improvements in or relating to processes for the continuous zone-refining of materials. (January 13, 1958.) Redistributing the ingredients of a fusible material containing at least two ingredients atleast one of which has a segregation coefficient other than unity by causing relatively hot and cold regions alternately spaced to progress in one direction through atleast a portion of the material within the receptacle.

66051. Western Electric Company, Incorporated. Process for controlling excess carrier concentration in a semi-conductor. (January 13, 1958.) Crystallising semiconductive material having uniform electrical conductivity from a body of liquid comprising fusible semi-conductive material as major ingredient and two significant impurity solutes as minor ingredient.

66052. Void.

66053. Dracone Developments Limited. Improvements in or relating to flexible barges. Having means for exerting a retarding force on the rear end of the barge during its motion through the water.

66054. Void.

66055. Void.

66056. Dracone Developments Limited. Flexible barges. Having flexibly attached thereto, at or near the stern thereof, a fin formed from flexible material.

66057. E. A. Weaver. Preservation process for edible vegetable products. Heating sealed vegetable product mixed with less than usual amount of preservative to 37°-55° C. for 5-30 mts. then cooling to below 25° C.

66058. John Thompson (Wolverhampton) Limited. Improvements relating to laminated metal structures and methods of forming such structures. (December 10, 1957.) Comprising laminations having corresponding edges welded to a surface of a metal member in which said surface is inclined at an acute angle longitudinally.

66059. Farbenfabriken Bayer Aktiengesellschaft. Packing container. (November 18, 1958.) Which comprises a rectangular, tubular container of plastic material provided with a cap, and a sheet bent about its longitudinal axis.

66060. Parks-Cramer Company. Suction cleaner apparatus for textile machines. Comprising at least one elongated tube positioned closely adjacent roll of the machine and having longitudinally spaced and aligned first slots for drawing broken ends and a pair of elongated second slots.

66061. Ciba Limited. Process for coloring organic products with pigment dyestuffs. Colouring with reaction product obtained by condensing 1-amino-anthraquinone with 1-nitroanthraquinone-2-carboxylic acid chloride.

DECEMBER 9.

66062. The British Thomson-Houston Company Limited. Improvements relating to protective covers for electric lamps. (December 16, 1957.) Cover comprising a longitudinally split jacket of pliable mechanically strong material.

66063. Metropolitan Vickers Electrical Company Limited. Improvements relating to electric power cable terminations. (December 12, 1957.) Two conductive members in a casing with insulated tubing extending between them; one member receives current carrying cable conductor and couples fluid duct of cable to tubing; other member has coupling for feeding cooling fluid to or from other end of tubing.

66064. Imperial Chemical Industries Limited. Improved electrolytic cells and anodes for use therein, and the process for electrolysing alkali metal chloride solutions utilising the same. (December 17, 1957.) Anode comprises an operative surface of a noble metal of the platinum group or an alloy of two or more such metals and the electrical conductor inside the cell leading the current.

66065. Texaco Development Corporation. Process and apparatus for the production of carbon monoxide and hydrogen from solid carbonaceous fuel. The reactants are fed into the upper part of the reaction zone, molten residue together with gaseous effluent is discharged from a common outlet in the lowermost portion of reaction zone directly into a closed quench zone maintained at the reactions zone and arranged to permit unobstructed flow of molten residue into direct contact with a body of water maintained in quench zone.

66066. Pirelli Societa Per Azioni. An improved connector for electric conductors of sector-shaped cross section. (October 7, 1958.) Comprising

two separate parts each formed as a socket of sector-shaped cross-section and extended rearwardly as a cylindrical portion.

66067. J. R. Geigy A.-G. Process for the production of coloured condensation products. [Addition to No. 60919.] Reacting 2-cyanobenzoic acid ester containing 3 or 4 halogen substituents in benzene nucleus with ammonia or primary amine and condensing 3-amino-isindoline-1-one obtained with equivalent amount of polyprimary amino compound.

66068. J. R. Geigy A.-G. Process for the production of isindoline-1-one compounds and the compounds so produced. Reacting aromatic O-cyano-carboxylic acid esters in presence of alkaline earth or alkaline, with alcohols.

66069. The Babcock & Wilcox Company. Improvements in and relating to welding method and apparatus. Depositing metal on work from a pair of fusible electrodes, supplying one electrode with arc current from positive terminal of a D.C. source to the negative terminal of which is connected to the work, withdrawing from the other electrode arc current of the same value.

66070. Standard Oil Company. Improvements in or relating to process for separation of Isophthalic acid from Terephthalic Acid. Forming a solution is a solvent, supersaturating with respect to one of said acid by cooling at controlled rate establishing nucleation in solution without substantial precipitation of crystals, cooling the solution to effect crystallization and separating large-crystal fraction.

66071. Renold Chains Limited. Improvements in or relating to chains. (December 10, 1957.) Void after publication. Forming chain roller from low carbon steel and quenching it rapidly from elevated temperature without preceding carburisation.

66072. Renold Chains Limited. Improvements in or relating to chains. (December 10, 1957.) Void after publication. Forming chain link plate formed from low carbon steel and quenched rapidly from elevated temperature without carbonisation.

66073. Licencia Talalmanyokat Ertekesito Vallalat. A method for the continuous purification of milk of lime used in sugar mills. Treating slaked lime milk into slanting-bottom settling tank fitted with worm conveyor and then with hydrocyclone to remove sludge.

66074. West Point Manufacturing Company. Process for avoiding or controlling odors in filamentary or sheet material treated with aldehyde resin. Treating filamentary or sheet material with an aldehyde resin, curing said resin, impregnating said material with a compound supplying HSO_3^- ion and drying the material.

66075. Daiwa Boseki Kabushiki Kaisha. Improvements in carding engines. A carding engine comprising a suction cylinder mounted between a carding cylinder and a latter in which consists of rotary member having a large number of small gaps distributed over its surface.

66076. Commercial Bureau. Improvements relating to oil resisting impregnated high tension insulating tape for high tension electric cables and cable joints. Bringing a continuous length of textile fabric in contact with a composition of phthalic anhydride, glycerine, W/W grade rosin, dehydrated castor oil and further coating one or both sides of the fabric with a composition of phthalic anhydride, glycerine, stearic acid and tricresyl phosphate and finally drying and curing the coated fabric.

66077. Commercial Bureau. Improvements relating to bituminous impregnated high tension insulating tape for cables and cable joints. Bringing a continuous length of textile fabric in contact with a composition of blown bitumen and ester gum or coumarone resin and organic solvent and coating its surfaces with a composition of blown bitumen, ester gum or coumarone resin and organic solvent and drying the coated fabric.

66078. Commercial Bureau. Improvements relating to oil immersed impregnated high tension insulating tape for high tension electric cables and

joints. Bringing continuous length of textile fabric in contact with a composition of ester gum, dehydrated castor oil and organic solvent, winding into a roll and keeping it immersed in a composition of transformer oil and W/W grade rosin.

66079. Council of Scientific and Industrial Research. Improvement in or modification of a tensioning screw jack with particular reference to a pressure measuring device for recording the tension. [Addition to No. 63865.] Comprises cross-head with two connected cylindrical holes in which are housed two pistons which receive the load from tensioned wires as compression and transmit it to a pressure gauge by comprising the fluid in the holes.

DECEMBER 10.

66080. Abhoy Pado Roy. Improved rail joint. A double set of springs in a state of compression are placed under rails and those springs being held in position by locking pin or pins supported by hanger or hangers slung from fish bolts.

66081. Abhoy Pado Roy. Improved rail joint. A spring in a state of compression is placed under the rails for supporting them from below, the spring being held in position by locking pin or pins supported from hangers which are slung from fish bolt.

66082. Void.

66083. Pending.

66084. Canadian Ingersoll-Rand Company, Limited. Log barking device. A drum comprises a plurality of axially spaced rotatable hoops welded together by a plurality of elongated staves.

66085. The English Electric Company Limited. Improvements in and relating to electric indicating instruments. (December 16, 1957.) Zero adjusting means comprising rotary button in eccentric operation with a sliding member in toothed connection with a toothed wheel.

66086. The English Electric Company Limited. Improvements in and relating to electric indicating instruments. (December 16, 1957.) Couter yoke a pole-piece and an inner pole supported by spaced legs in magnetic connection with the yoke, via a ferro-magnetic gate piece.

66087. D. Napier & Son Limited. Combustion turbine power units. Comprising an air compressor, a compressor-driving turbine, and a free power turbine downstream of the compressor-driving turbine.

66088. D. Napier & Son Limited. Turbine-Propeller power units for aircraft. (December 12, 1957.) In which a reduction gearing assembly including auxiliaries is constructed as a unit separate from the engine.

66089. J. R. Geigy A.-G. N-substituted azepines and dihydroazepines. Reacting 5-halogen-carbonyl-azepine or dihydro-azepine with aminoalcohol $\text{H-alkylene-N}=\text{R}_1, \text{R}_2, \text{R}_1, \text{R}_2$ being alkyl radicals bound to each other directly or through oxygen.

66090. J. R. Geigy A.-G. N-substituted azepines and dihydro-azepines. Reacting 5-(2'.3'-epoxy propyl)-azepine or dihydro-azepine with HNR_3 -alkylene- $\text{NR}_1, \text{R}_2, \text{R}_1\text{-R}_2\text{-R}_3$ being radicals.

66091. Joseph Lucas (Industries) Limited. Venting plug assemblies for multi-celled electric storage batteries. (December 16, 1957.) Wherein a plurality of venting plugs, for insertion in sockets in the battery cover, are secured to the underside of hollow cover which forms an interception chamber for gas-borne acid escaping from the battery through venting plug.

66092. Imperial Chemical Industries Limited. Process for the modification and improvement of textile materials. (December 31, 1957.) Treating the textile material in an aqueous medium in the presence of an acid-binding agent with a compound free from organic chromophoric groups.

66093. Imperial Chemical Industries Limited. Treatment of cellulosic materials. (January 15, 1958.) [Addition to No. 57326.] Treating under

alkaline conditions with a compound containing at least one 1:3:5-triazine ring the carbons of which carry as substituents two halogen atoms and a residue of primary or secondary amine bound via nitrogen atom and containing at least one positively charged solubilising group.

66094. J. K. Dhandhanja. Improvements relating to dry syrup powder composition. Comprising an intimate mixture of pulverised sugar, saccharine, tartaric acid, sodium bicarbonates an edible colouring material and an essential oil.

66095. Council of Scientific and Industrial Research. A new method for production of diesel oil from coal-tar and coal-tar fractions. Catalytically hydrogenating in presence of binary or tertiary mixture of Ni, Co, Cr, Mo at 10-75 atmos pressure—300-450° C.

DECEMBER 11.

66096. Council of Scientific and Industrial Research. A process for the production of bacterial diastase. Cultivating strains of *Bacillus Subtilis* or *Bacillus mesentericus* in an aqueous nutrient medium.

66097. C. R. Jain. Improvements in or relating to Rubber Hot Water Bottle or Ice Bag. Provided with a screwed holder of hard rubber plastic or unbreakable glass to hold a threaded closure or stopper made of plastic or unbreakable glass.

66098. Automatic Telephone and Electric Company Limited. Improvements in or relating to party-line arrangements for automatic telephone switching systems. (December 13, 1957.) Provided with arrangements whereby on a preliminary operation of the dial switch which is the same for all subscribers on the same party-line, an impulse pattern identifying the calling party line is transmitted.

66099. Automatic Telephone and Electric Company Limited. Improvements in or relating to automatic transit switching exchanges. (December 14, 1957.) Includes incoming 4-wire trunk line circuits which are equipped for voice-frequency signalling and dialling and which are provided with arrangements for enabling the incoming 4-wire trunk lines to be connected either to a 4-wire transmission path or to a 2 wire-transmission path.

66100. N. V. De Bataafsche Petroleum Maatschappij. Process for the catalytic desulphurization of hydrocarbon oils. Characterized in that the liquid material from the high-pressure separation zone is expanded in stages in an intermediate-pressure separation zone and a low-pressure separation zone.

66101. L. Fried and A. R. D'Andrea. Opener for removing a frangible receptacle closure. [Divided out of No. 60065 and ante-dated to April 1, 1957.] A single strip of flat metal folded transversely to form two superposed portions one having free end pointed and other, an offset adjacent to fold line.

66102. The Indian Casablancas High Draft Company Private Limited and F. P. Sallent. Improvements in drafting mechanism for textile fibres. Comprising a one piece block-piece the upper face of which is provided with a plurality of downwardly extending channels adapted to be located under the middle neck like portion of one of the top drafting roller.

66103. Brevets Aero-Mecaniques S.A. Improvements in or relating to ring spinning machines. Providing means for correcting at least partially the variation of the reaction of the balancing spring member as the mean position of the movable rail varies during the winding operation.

66104. A. J. Racicot. Multiple end horizontal crimping machine and method of processing a plurality of yarn ends. (December 19, 1957.) A plurality of yarn package support means for each yarn end, a horizontal frame, an endless drive belt, one vertical group of yarn twist spindles, a mounting for each twist spindle and means for friction driving of the spindle.

66105. The Tata Iron and Steel Company Limited. Improvements in or relating to method of manufacturing rakes. [Addition to No. 66025.] Employing a blank of uniform section, trimming top portion, punching a hole for eye and also trimming the lower edge to form ends of the prongs, fluting and then bending the prongs.

66106. Standard Telephones and Cables Limited. Method for manufacturing ropes or cables. Comprising a plurality of layers of metal wire or wires twisted together by means of stranding rotors.

66107. Tropical and Eastern Produce Company Limited. Improvement in the manufacture of crepe rubber. (December 12, 1957.) Incorporating small proportions of titanium pigment in the latex from which rubber is coagulated.

66108. Ratby Engineering Company Limited. Improvements in stern drives for boats. (December 13, 1957.) Underwater casing besides partially housing vertical power-transmitting means and carrying a bearing housing for a horizontal propeller shaft, is rigid with a vertical steering sleeve.

66109. Council of Scientific and Industrial Research. Improvements in or relating to the production of magnesium metal. Preparing anhydrous magnesium chloride in combination with alkali metal chlorides by reacting magnesite, dolomite obtained from sea or bitters with ammonium chloride at 300° C. to 750° C.

DECEMBER 12.

66110. Dr. Syamapada Roy. Pharmaceutical preparation for the cure of gum and teeth. Comprising ethyl amino benzoate, iodine crystals, potassium iodide, carbolic acid, spirit comphor and methol intimately mixed and dispersed in a solvent.

66111. Void.

66112. Void.

66113. Chas. Pfizer & Co., Inc. Steroids and the preparation thereof. A 3-keto- Δ^4 -16 methylene steroid is selectively hydrogenated in presence of a catalyst.

66114. Chas. Pfizer & Co., Inc. Steroids and the preparation thereof. A 9, 11 oxido steroid is treated with a reagent H X where X is halogen, methoxy or ethoxy and if desired the 11 β -hydroxyl group is oxidised to a ketogroup.

66115. Food Machinery and Chemical Corporation. Process for manufacture of hydrogen peroxide. Wherein an anthraquinone derivative carrying on each external ring at least one alkyl substituent, is used as a working compound.

66116. Union Carbide Corporation. Substantially flat primary Galvanic cell and method of producing the same. Comprises a consumable metal anode, electrolyte-wet depolarizer mix on both sides of anode and separated therefrom by an immobilized electrolyte a flexible moisture impervious cathode collector in contact with depolarizer mix.

66117. Standard Telephones and Cables Limited. Improvements in or relating to data processing and telephone subscribers metering equipments. (December 23, 1957.) Using magnetic drum storage devices.

66118. R. R. Pardasani. Improvements in or relating to locks. [Addition to No. 66039.] Comprises a locking bar, an auxiliary plate connected to one tumbler and adapted to operate the said tumbler to couple and decouple the 2nd tumbler for locking and unlocking respectively.

66119. Veb Webstuhlbau Grossenhain. Improvements in or relating to multicolour weaver's looms. The pawl coupling has as many individual pawls as there are stationary magazine sections.

DECEMBER 13.

66120. J. W. Stott. Improved overpick loom pickers and method of constructing them. Single-pronged fastner provided with any form of grooves, raised edges, ridges, projections, which the hide can grip during the natural shrinkages.

DECEMBER 15.

66121. The Crescent Iron & Steel Corporation Limited. Improvement in or relating to Hydraulic Rams. Check valve or its valve seat or both check valve and its valve seat are made of rubber or like compressible material.

66122. Bataafse Petroleum Maatschappij. Fuel Compositions. Comprising between 10—90 per cent. by weight of a hydrocarbon or hydrocarbons having not more than 2 double bonds and 2 carbocyclic rings/mole and of a non-aromatic hydrocarbon or a mixture of such having not more than 3 double bonds and 3—6 carbocyclic rings/mole.

66123. Bataafse Petroleum Maatschappij N. V. formerly known as N. V. De Bataafsche Petroleum Maatschappij. Grease manufacturing process. Mixing a hydrophobic lubricating oil with an aqueous suspension of a water-insoluble dye of the group consisting of indanthrene compounds.

66124. The British Oxygen Company Limited. Improvements in or relating to spool holders, for example, those used in welding machines. (December 29, 1957.) Comprising a hule adapted to carry a spool and a spool-retaining means extending transversely of the hub at one end of the spool.

66125. May & Baker Limited. New Isonicotinylhydrazide derivative and process for its preparation. (January 17, 1958.) Condensing 4'-formylbenzal-4-thiosemicarbazohofornylaniline with pyridine-4-carboxyhydrazide.

66126. Societe Des Usines Chimiques Rhone-Poulenc. Organo-polysiloxane compositions. 100 parts of liquid diorganopolysiloxane (viscosity 5000-5000 C. at 25°), 5 to 50 parts of filler and 10 to 50 parts of ZnO are malaxated and heated at 50-200° C.

66127. P. E. Bessiere. Improvements in reciprocating pumps and in particular fuel injection pumps for internal combustion engines. Including a discharge conduit the opening of which prevents the pump from delivering liquid.

66128. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improvements in or relating to the polymerisation of vinyl ethers. Polymerising vinyl ethers of formula $\text{CH}_2=\text{CHOR}$ (R=alkyl, cycloalkyl or aryl) in the presence of a catalyst comprising a bimetallic complex of titanium and aluminium.

66129. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of N-alkenyl-morphinans. Reacting 3-hydroxy or 3-methoxymorphinan with a -disubstituted allyl halide.

66130. Woodall-Duckham Construction Company Limited. Improvements in or relating to the charging of horizontal coke ovens and like installations. (December 16, 1957.) Incorporating a battery car having means for removing and replacing a charging hole lid of such battery of cokeovens, the means comprising mechanically operable lid handling means movable about a pivoting axis and capable of being mechanically engaged with the charging hole lid.

66131. United States Borax & Chemical Corporation. Composition for the control of vegetation. (November 17, 1958.) Comprises one or more herbicidal substances dispersed in an aqueous thixotropic colloidal gel.

66132. Alimak-Verken AB. Elevator suitable for passenger and load transport. Elevator comprising platform supporting the rack engaging driving mechanism and freely engageable with rack-equipped guide rails.

DECEMBER 16.

66133. United States Steel Corporation. Method of reducing iron oxide. Introducing iron oxide fines with silicious gangue in a fluidized bed maintained at a minimum temperature of 1200° F. and introducing reducing gas to the bed.

66134. V. K. A. Menon. Indirect withering system for tea manufacture. Comprising in combination a bulking chamber for the mixing of conditioned withering air of any desired temperature and humidity and means for passing the conditioned withering air from the bulking chamber.

66135. Chas. Pfizer & Co., Inc. Therapeutic products and preparation thereof. Comprising N-hydrocarbon-substituted benzhydrazide and a carrier.

66136. Chas. Pfizer & Co., Inc. Feed supplements and preparation. Comprising 3, 5-diketo-2, 3, 4-tetrahydro-1, 2, 4-triazine.

66137. Chas. Pfizer & Co. Inc. Enamelling or Porcelainising treatment of metals. Pickling ferrous metal objects with an aqueous solution of citric acid or glycolic acid, depositing nickel on the surface thereof, applying a porcelain enamel coating followed by drying and banking.

66138. American Cyanamid Company. Improvements in the production of sulfanilamidodiazines. Effecting reaction in presence of a fluidizing agent.

66139. Pending.

66140. Ciba Limited. New Benzimidazoles and a process for their manufacture. 2-(arylamino-alkyl)-benzimidazole is reacted with a reactive ester of an alcohol of the formula HO-AR (A—Alkylene radical and R—NH₂ radical).

66141. John Dalklish & Sons Limited. Improvements in or relating to selvedge holders. (December 30, 1957.) Comprises a rocker member, a tumbler pivotally mounted for swinging, whereby the rocker is locked in both operative and inoperative positions.

66142. Fairchild Arms International Ltd. Cartridge feeding mechanism. (August 7, 1958). Comprises a housing defining a cartridge receiving passage and two feeding elements disposed above and below said passage and reciprocable therein.

66143. R. Y. Sanders, Jr. Marked pharmaceutical tablet and method of marking the same. Having indicia printed on resinous coating containing lubricative plasticizer over foundation coats of tablets.

66144. Aluminium-Industrie-Aktiengesellschaft. Improvements relating to electrolytic cells for use in the production of aluminium. Providing a current carrying beam for the anodic part of the electrolytic cell, the being made by continuous casting of an aluminium alloy.

66145. Cobra (Wood Treatment) Limited. Improvements in or relating to tools for injecting materials into wood. (June 14, 1958.) An injection head comprising a cylinder a piston and holders for two needles adapted to be fed from the cylinder.

66146. Ciba Limited. New Pyrazolo-Pyrimidines substituted in the Pyrazole Nucleus pharmaceutical preparations containing same and process for the manufacture thereof. (January 13, 1958.) Reacting a pyrimidine with mono-substituted hydrazine.

66147. Ciba Limited. New Pyrazolo-Pyrimidines substituted in the Pyrazole Nucleus pharmaceutical preparation containing same and process for the manufacture thereof. (January 13, 1958.) Reacting 6-unsubstituted-2-amino-pyrimidine with hydrazine.

DECEMBER 17.

66148. Council of Scientific and Industrial Research. Improvements in or relating to lead dioxide semi-conductors in the preparation of rectifiers. In the process for the preparation of rectifiers by applying a counter electrode

on lead dioxide semiconductor, lead dioxide is electrolytically deposited on a metallic or graphite base or lead dioxide is electrorolytically formed on lead metal.

66149. Void.

66150. Merck & Co., Inc. Process for preparing sulfonamide compounds. Reacting halonitrobenzene with alkali disulfide oxidizing with chlorine amidating with ammonia reducing the sulfonamide and chlorosulfonating the aniline compound and amidating the product.

66151. The British Oxygen Company Limited. Cooling systems for Electrical apparatus and protective devices for use in such systems. (December 23, 1957.) Device being heated by the electric current and to be cooled by the cooling liquid during operation and to control said current for predetermined value.

66152. Imperial Chemical Industries Limited. Improvements in or relating to cyclones. (December 31, 1957.) Having the size of aperture at its apex constant and having its apex joined to an end of flexible tube without said and extending into said apex.

66153. Carrier Corporation. Method and apparatus for rendering a saline water potable. Comprising vacuum-freezing saline water placing the resulting mixture of ice and saline water in a column, passing potable water on ice, collecting the washed ice and melting the ice.

66154. Carrier Corporation. Method and apparatus for rendering saline water potable. Forming ice in saline water, separating the ice from the remaining saline water and partially melting the ice to form water for washing the ice.

66155. Carrier Corporation. Method and apparatus for rendering a saline water potable. Comprising vacuum freeing saline water, removing water vapour from the resulting mixture of ice, saline water and water vapour, placing the mixture of ice and saline water in a column condensing at least some of water vapour on the surfaces of the ice in the mixture to wash salt from the surface of the ice, collecting the washed ice and melting the same.

66156. Socony Mobil Oil Company Inc. Improvements in or relating to Acoustic sensing systems. Comprising magnetostrictive transducer including pair of cylinders with windings, a receiver, cable means including electric conducting means, a source of variable electric energy, circuit means inter-connecting said source and windings and means responsive to output of the receiver for indicating character of acoustic field.

66157. J. R. Geigy A.-G. Device for combating insects, in particular, flies. Impregnating porous damp, sheet of brownish to red colour with partly water-soluble to substance toxic to flies mixed with foodstuff.

66158. Babcock and Wilcox Limited. Improvements in liquid fuel burners and an improved method of producing hot gases at a variable rate. (December 20, 1957.) Having a whirl chamber with a discharge orifice for the passage from the whirl chamber of whirling, fuel an interceptor being provided beyond the orifice to intercept a variable proportion of the cone of spring projected from the orifice.

66159. R. R. Pardasani. Improvements in or relating to Locks. [Addition to No. 66039.] Comprises a locking bar controlled by a spring loaded catch element and at least a pair of tumblers adapted to be coupled and decoupled for locking and unlocking respectively.

66160. The Metal Box Company of India Limited. Improvements in or relating to the manufacture of aluminium containers. Extrusion effected on a flat ring of aluminium so that the wall terminates at the lower end in a flange, the bottom of the container being simultaneously produced from a disc of aluminium on which the ring is seated for extrusion.

66161. Ciba Limited. Process for the manufacture of alkyl-pregnanes. Reacting Δ^{16-20} -keto-5 α -or 5 β -pregnane with alkyl metal compound, subjecting reaction product to acylation.

66162. Void.

66163. Ciba Limited. Manufacture of new mono-aliphatically substituted hydrazines and pharmaceutical compositions containing same. Aliphatic compound substituted by an aryloxy radical and containing a group convertible into a hydrazine group is condensed with hydrazine or a reactive ester of hydroxyl amine or is reduced or hydrolysed to produce substituted hydrazines.

66164. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Improvement relating to the preparation of vinylchloride graft copolymers. Polymerising vinyl chloride with hydroperoxide derivative of an α -olefin polymer or copolymer in the presence of a polyethylene polyamine.

66165. Montecatini Societa Generale Per L'Industria Mineraria E Chimica. Linear high molecular weight polymers and copolymers of organometallic vinyl monomers. Effecting polymerisation in presence of a catalyst formed by reacting a compound of transitional metal of Groups IV, V or VI of the periodic table with an organometallic compound of a metal of groups I, II or III.

66166. N. V. Philips Gloeilampenfabrieken. Improvements in or relating to telegraph systems. Demodulated signals are fed to a control-voltage generator to produce a control-voltage varying with levels of the demodulated signals and varying threshold value of the testing device.

66167. N. V. Philips Gloeilampenfabrieken. Improvements in or relating to a method of interconnecting ceramic parts by means of a good-conducting metal and objects produced by this method. With interposition of a foil of good conductive metals the parts are piled up and heated in excess of the melting point.

66168. N. V. Philips Gloeilampenfabrieken. Improvements in or relating to hot-gas reciprocating engines. Working medium consists of a gas mixture free of oxygen, which contains at least 3 per cent. by weight and at the most 20 per cent. by weight of hydrogen.

66169. N. V. Philips Gloeilampenfabrieken. Improvements in or relating to Fungicidal compositions. Comprising as active substance 0.01 to 80 per cent. by weight of a bis (dialkyl amido) pentachlorophenyl phosphate together with a diluent or carrier.

DECEMBER 18.

66170. Schering Aktiengesellschaft. X-ray contrast media and new shadow producing compounds. α -alkyl or cycloalkyl- β -(3:5-diaminophenyl)-propionic acid or an ester thereof is iodinated and if desired the product ester is hydrolysed.

66171. A. Kuckens. Method and apparatus for producing tubes with a helical welding seam. Steel strip reel rests by its own weight on the feeder roll assembly and is driven merely by contact and is introduced into the shaper box in a manner that the stup is subjected to only one fixed point in the feeder roll assembly.

66172. The Tempered Spring Company Limited. Means for securing railway rails to sleepers. (December 19, 1957.) A removable resilient plate adapted for holding the rail constrainedly by securing means associated with a fulcrum.

66173. Etablissements L. Faiveley (Societe Anonyme). Depolyable current collecting device for locomotives or rail cars propelled electrically. Comprises a control motor for the movement of the support of the current collector and springs for pressing the current collector against the trolley wire.

66174. Birs Beteiligungs-Und Verwaltungsgesellschaft A.G. Process and apparatus for the production of dry powders and concentrates from solutions

and suspensions. The solution or suspension is divided into droplets (5-2000 μ which are contacted with counter-current stream of dry gas at 0-60° C. for 5-1000 seconds.

DECEMBER 19.

66175. Council of Scientific and Industrial Research. A process for the oxidation of ortho, meta and para xylenes and mixed xylenes to the corresponding tolualdehydes. Oxidising xylene with manganic sulfate.

66176. Kamani Pigment Works. A plant for an improved process of manufacturing red lead. Combination of lead melter oxidiser, cyclone, air screw, roaster and bucket elevator.

66177. American Cyanamid Company. Deoxyanhydrotetracyclines. (October 17, 1958.) Treating 12 α -deoxytetracycline with dehydrating agent.

66178. American Cyanamid Company. Production of Compounds of the Tetracycline Series. (October 17, 1958.) Reducing corresponding tetracycline antibiotic having a 12 α -hydroxy substituent with a reducing agent.

66179. Chas. Pfizer & Co., Inc. Animal feed. Comprising a nutritionally balanced animal feed and a small portion of gibberellin.

66180. Union Carbide Corporation. Preparation of bisphenols. Reacting a phenol having a reactive hydrogen atom para to the phenolic hydroxyl group with a ketone having at least one methyl group to the carbonyl group in presence of a substantially insoluble cationic exchanging polymeric resin as a catalyst.

66181. Montecatini Societa Generale Per L'Industria Mineraria E Chimica and K. Ziegler. Improvements relating to the polymerisation of unsaturated hydrocarbons. Polymerising in presence of a catalyst prepared by reacting organometallic compound with a transitional metal compound in presence of amine.

DECEMBER 20.

66182. Libbey-Owens-Ford Glass Company. Glass bending mold. Comprises a bending mold having a substantially continuous shaping rail enclosing an area greater than the area of the pattern to be cut from the blank size sheet.

66183. Owens-Corning Fiberglas Corporation. A process and device for the manufacture of fibers of heat-softenable mineral material, particularly fibers of glass. Solid pieces of the material are first electrically heated and melted in chamber located above the feeder and then supplied to the feeder.

66184. R. C. Pande. Improvements in or relating to cabinet safe, wardrobe or the like. The space between the back panel and folded front planks and side panels is obtained by extending the back panel to form a part each of side panels and to the extended parts the side panels are hingedly secured.

66185. M. J. Lewenstein. Morphine derivative. Treating 14-hydroxy dihydromorphinone with NaBH₄.

66186. Joh. A Benckiser GmbH Chemische Fabrik. Therapeutically valuable condensation products from sulphonamides and amine carbohydrates, and process for their manufacture. [Divided out of No. 61416 and ante-dated to April 29 1958.] Reacting a sulphonamide with an amine carbohydrate.

66187. T. Mensforth. Improvements relating to single-phase or like alternating current electric motors. (September 2, 1958.) Armature connected to commutator segments through resistors and field circuit provided with separate windings for excitation and neutralising armature reaction.

66188. Elektrokemisk A/S. Improvements relating to a method and furnace for the production of Aluminium by Melt-Electrolysis. Alumina charge is preheated before introduction into the furnace by the heat of the combustion gases from the burner in which furnace gases are burnt.

66189. Henry Squire & Sons Limited. Improvements relating to hasps. (January 16, 1958.) Hinged connection between the attachment element and the hasp element is effected by providing one of the elements with a tongue which is shaped in between its end to form a loop.

66190. The Goodyear Tire & Rubber Company. Improvements in calibration of electrical temperature control. Control mechanism provided with a calibration resistor for establishing the desired cut-off temperature of the electrical resistance heating unit.

DECEMBER 22.

66191. Void.

66192. Universal Machine Company. An improved variable speed control device. Parallel arms carrying input and output shafts each having a split half of V-pulley carrying a V-belt and a speed indicator means consisting of indicator connected to one parallel arm by pivotally mounted arm and a cam.

66193. Void.

66194. Council of Scientific and Industrial Research. Improvements in or relating to can-sealing composition. Latex composition for can sealing comprising rubber latex, stabilisers, proteinous matter, fillers, deodorising agent, defoaming agent, vulcanising ingredients, antioxidants and gums.

66195. Council of Scientific and Industrial Research. Preparation of lead dioxide electrodes for electrolysis. Electrolytically depositing lead dioxide on graphite and/or carbon base is soluble lead salt baths.

66196. Council of Scientific and Industrial Research. A process for the isolation of new cardiac glycosides from the seeds of thevetia neriifolia juss. The fat free power of the seeds of thevetia neriifolia juss is subjected to enzymatic hydrolysis.

66197. Council of Scientific and Industrial Research. A new method for the oxidation of cumene to α -cumylhydroperoxide. Oxidising cumene by oxygen or air at 110-140° C.

66198. Farbenfabriken Bayer Aktiengesellschaft. Process for dyeing with vat dyestuffs. (October 8, 1958.) Wherein dyestuffs dispersed in water are reduced at a pH below 13 with boron hydrogen compound.

66199. Societe Des Usines Chimiques Rhone-Poulenc. Improvements in or relating to phenthiazine derivatives. A phenthiazine is reacted with a compound to introduce an alkyl-piperazinyl amide group into the phenthiazine ring.

66200. Glaxo Laboratories Limited. Improvements in or relating to the preparation of steroid compounds. (December 31, 1957.) 16-bromo-17 α -hydroxy steroid is debrominated by hydrogenolysis in the presence of Pd. catalyst in a polar solvent at a pH 4.0 to 6.0.

66201. Ciba Limited. Process for coloring spinning or like compositions for producing shaped structures. Incorporating in the spinning composition a dyestuff obtained by condensing indigo or its substitution product with an arylacetic acid halide having substituents in the benzene nuclear.

66202. Sandoz Ltd. New hydrazine derivatives and a process for their manufacture. (September 18, 1958.) [Addition to No. 64951.] Reacting 1-methyl-piperidyl-4-hydrazine with acetone acylating reaction product with carboxylic acid chloride and splitting off isopropylidene group therefrom.

66203. K. Tanaka. An operating system for a fluorescent lamp. Comprising a main supply circuit including a source of voltage and a stabilizing impedance, each of the filaments being connected with a heating circuit comprising of heating voltage and a heating circuit impedance for heating corresponding filament.

66204. Brotherton & Company Limited. Improvements in or relating to composite pigments. (December 24, 1957.) Comprises zinc oxide and zinc titanate in proportions such that the ratio of titanium to whole of zinc does not exceed 10 per cent. by weight.

66205. Pending.

66206. Horstmann & Sherwen Limited. Improvements in or relating to wood working machines. (December 23, 1957.) Having a work table with an elongated working slot therein through which a rotary tool can be projected.

66207. R. O. Bracke. Improvements in or relating to oil burners. Comprises in front of the nozzle of the burner head a considerably expanded air supply and combustion chamber of flat rectangular cross section with ports in its peripheral wall which are disposed at an angle oblique to the direction in which the flame issues.

66208. K. Chandra. Improvements in or relating to electric fans. Shaft of the fan motor is hollow and is fitted at its fan blades end with a small drum provided with holes on its periphery.

66209. Her Majesty's Postmaster General. Improvements in or relating to subscribers' telephone sets. (December 23, 1957.) Provided with means responsive to line current for varying the sensitivity of the transmitting and/or receiving circuit in accordance with variations in the resistance of the subscriber's line.

DECEMBER 23.

66210. Void.

66211. B. M. Sreeramulu. Toy for shooting Amorces. A cylinder with arc end closed and carrying arrow-head and provided with an opening at base of arrow head to receive amorces, while its other end free to receive a piston, free end of the piston being lowly attached to string of a low.

66212. Dunlop Rubber Company Limited. Improvements in or relating to a method and apparatus for the manufacture of pneumatic tyres. (January 15, 1958.) Disposing unvulcanised treated rubber around the inner peripheral surface of a tread moulding ring, locating the ring coaxially with respect to a carcass, expanding the same and subsequently moulding it.

66213. American Cyanamid Company. Epimers of 6-demethyl-6-deoxy-tetracycline. [Divided out of No. 63160 and ante-dated to February 17, 1958.] Adjusting a concentrated solution of 6-demethyl-6-deoxytetracycline to a pH range of about 3 to 5 and allowing the solution to stand until the isomerism has reached equilibrium.

66214. E. I. Du Pont De Nemours and Company. Improvements relating to elastomeric compositions and articles comprising them. (October 9, 1958.) Comprising ureylene-containing elastomer and titanium dioxide or aliphatic amine.

66215. Bured, Inc. Fabric packaging machine. A magazine for holding units of work, a winding mechanism, a wrapping machine and a conveyor.

66216. M. Matolia. Light weight insulation building material. Impregnating vegetable fibrous material in magnesium chloride solution relieving of excess solution, then mixed with calcined magnesite and pressed into shapes and forms.

66217. N. H. Friedman. Composition for making an electrically conductive system. Composition formed by an aqueous solution of an emulsified material of anionic type and a highly ionizable salt being added to control the electrical conductivity thereof.

66218. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. New benzene-sulphonyl-ureas and process of preparing them and pharmaceutical preparations containing such sulphonyl ureas. [Addition to No. 64270]. Reacting together compounds $C_6H_4(B)-CHA-Y$ a $C_6H_4(R)-SO_2-x$, where x and Y are groups which form urea-linkage A, B are hydrogen or alkyl radical.

66219. Parks-Cramer Company. Apparatus for removing lint, dust and other light material from machines and other surfaces in textile mills. Com-

prises a suction blower having a casing, at least one duct depending from the casing and having a floor sweeping nozzle at its lower portion.

66220. Woodall-Duckham Construction Company Limited. Improvements relating to the cleaning of the sealing of the sealing surfaces of the doors and door frames of a horizontal coke oven. (December 24, 1957.) Heating the deposits on the surfaces to be cleaned and immediately removing the softened deposits by mechanically operated scraper means.

66221. Woodall-Duckham Construction Company Limited. Improvements relating to the cleaning of the sealing surfaces of the doors and door frames of a horizontal coke oven. (December 24, 1957.) Horizontal coke-oven having a mechanical door sealing surface cleaning means mounted on the carriage, and also mechanical door handling means mounted on the carriage, the arrangement being so made that a door removed from an oven may be brought into sealing surface cleaning relationship.

66222. Woodall-Duckham Construction Company Limited. Improvements relating to the cleaning of the sealing surfaces of the doors and door frames of a horizontal coke oven. (December 24, 1957.) Comprising a plurality of scrapers carried by the supporting structure and movable relatively for changing the sealing surfaces, and means for mechanically moving the scrapers over the surfaces to be cleaned.

66223. Woodall-Duckham Construction Company Limited. Improvements relating to the cleaning of the sealing surfaces of the doors and door frames of a horizontal coke oven. (December 24, 1957.) Comprising scraper means, a supporting structure therefor, and means for mechanically propelling such scraper means over the sealing surfaces to be cleaned.

66224. Void.

66225. Bristol Aircraft Limited. Improvements in vehicle bodies. (January 3 1958.) Composed of two trough-shaped mouldings constituting parts of the shell on opposite side of longitudinal plane.

66226. Void.

66227. Svenska Aktiebolaget Bromsregulator. A control valve for a fluid pressure operated servomotor in fluid pressure brake systems for vehicles, particularly railway vehicles. Comprises a valve housing having three-ways a system of movable parts and spring means within said housing.

66228. Council of Scientific and Industrial Research. Improvements in or relating to wheel mounting mechanisms. Comprising a swivelling mechanism including two extensions or beams on each side of the vehicle framework and a wheel frame attached to the beams or extensions.

DECEMBER 24.

66229. Void.

66230. Gesellschaft für Linde's Eismaschinen Aktiengesellschaft Zweigniederlassung Hollriegelskreuth. Improvements in or relating to heat exchangers. Consisting of a non-spherical packing element having external bounding surface of substantially convex shape.

66231. Wetzell, Gummiwerk A.G. Improvements in sliding clasp continuous fasteners. (January 8, 1958.) Means for sealing an opening in the joint at the closing end caused by the plough.

66232. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Esters of dinitro-2-sec, butyl-phenol, process of preparing the same, and herbicides containing such esters. Carboxylic acid halides or anhydrides are reacted with dinitro-alkyl-phenols in anhydrous medium.

66233. Dompe Farmaceutici. Dosing stopper for bottles and the like. Fastened to the bottle but capable of rotation contains a dose-chamber provided with communicating orifices.

66234. Void.

DECEMBER 26.

66235. Void.

66236. Void.

66237. Void.

66238. Pending.

66239. Compagnie Generale de Telegraphie Sans Fil. Improvements in semi-conductor signal translating device. (January 13, 1958.) A body of semi-conductive material having a pair of zones of opposite conductivity first zone having a resistivity higher than the second, a third zone is ohmic contact with the first zone.

66240. Union Carbide Corporation. Gas shielded arc cutting. Accepted on November 3, 1959. Discharging a stream of gas through a nozzle surrounding an electrode, velocity of the stream of gas being maintained sufficiently high to axially stabilize the external arc and to maintain the kerf free from dross on at least one side.

66241. Void.

66242. Wolf Electric Tools Ltd. A device for removing an applied coating. (August 6, 1958.) Including a metal disc with a convex outer face mounted on a spindle and formed as by punching or otherwise perforated to present on the outer or working concave face a series of cutting or scraping, or abrasive edges.

66243. Union Carbide Corporation. Homogeneous mixtures of solid polymers of ethylene and process for producing same. Comprising from 2 to 52 parts of low mol wt. highly branched polyethylene and from 50 to 98 parts of sparsely branched high mol wt. polyethylene.

66244. Brakeshoe International S.A. Improvements relating to rotary pumps and motors. Total fluid displacement or total output can be varied from zero to maximum.

66245. Brakeshoe International S.A. Improvements relating to pumps or motors. Each rotor contains a plurality of equidistant pairs of vane accommodating grooves the grooves of each pair being close together.

66246. Fabwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Ortho-hydroxy-azo-dyestuffs and process for their manufacture. The condensation product of 3-hydroxy naphthalic acid or its anhydride and ammonia or an amine, is coupled with a diazonium compound.

66247. S. Takita. Device for locking a loading arm of a draft device in spinning machines. A loading arm of an inverse U-shape section, a hook member, a pin loosely fitted across both sides of the loading arm with an eccentric sheave, and a lever pivotally mounted on the said sheave.

DECEMBER 27.

66248. E. I. du Pont de Nemours and Company. Staple fibres form linear polyesters. Spun from polymers of ethylene terephthalate with ulatine viscosity of 14.0 to 17.0.

66249. Koppers Company, Inc. Improvements in or relating to method of and apparatus for making foamed polymeric structural materials. Applying to polymeric material predetermined amount of material having high power loss factor and exposing said particles for predetermined time to high frequency electric field.

66250. No-Sag Spring Company (Great Britain) Limited. Improvements in and relating to upholstery springs. The serpentine spring being encased in a flat flexible sheath to prevent cushions protruding through the spaces between the windings of the spring.

66251. Dunlop Rubber Company Limited. Improvements in belting. (January 4, 1958.) Comprising a layer of polyester film adhesively bonded to a layer of elastomeric material.

66252. Dunlop Rubber Company Limited. A method and apparatus for preparing lengths of tread strip during the manufacture of pneumatic tyres. (January 10, 1958.) Securing a tread strip of shorter length than predetermined length adjacent to one end to a supporting member, stretching the tread strip to the predetermined length by gripping the other end and exerting a pull thereon.

66253. The Keelavite Company Limited. Manually operated pumps and apparatus incorporating such pumps. (January 10, 1958.) Including an operating member for manual operation which is connected to the pump mechanism through a mechanical connection arranged when in a normal position to transmit force to the pump mechanism.

66254. Fielden Electronics Limited. Improvements relating to electronic oscillators and to switching circuits from comprising such oscillators. (January 16, 1958.) Comprises a bridge connected oscillatory circuit, an amplifying element and rectifier means coupled to the oscillatory circuit for relay operation.

66255. Stamicarbon N. V. Apparatus for separating particles according to specific gravity by the float-and-sink method. Consists of a washing tank divided into compartments, the partition wall being formed by suspended flexible elements and has transporting means.

66256. A. Subervie. Process for preparing powdered ores suitable for feeding into apparatus for igneous agglomeration. Granular elements are mixed with an inverse emulsion of hydrocarbon oil and then with a powdered mixture of pitch and cement, the granular elements thus prepared being coated with powdered ore so as form grains or nodules.

DECEMBER 29.

66257. Void.

66258. Void.

66259. W. Zinkiewicz. Improvements in or relating to device for ground burrowing. Motion of the piston beater is effected solely by compressed air fed into cylinder from compressed-air source through control device, also placed in cylinder, controlling automatically the influx of compressed air alternately into internal space of cylinder.

66260. Bataafse Petroleum Maatschappij N. V., formerly known as N. V. De Bataafsche Petroleum Maatschappij. Process for the removal of soot from gases. Comprises adding water to soot-containing gas to saturate and simultaneously cool it to a temperature less than 40° C. below dew point.

66261. W. P. Evans & Son Limited. Improvements relating to paper making machines. (January 1, 1958.) The suction stage proceeding the couch roll comprises two or more suction units of the endless belt type.

66262. W. P. Evans & Sons Limited. Improvements relating to paper making machines. (January 1, 1958.) Void after publication. Comprises a relatively hard rubber or like apertured cylindrical sleeve or tube mounted for rotation on fixed axis around a hollow stationary support.

66263. W. P. Evans & Son Limited. Improvements relating to paper making machines. (January 1, 1958.) A table roll for the paper making machine formed with evenly-distributed apertures throughout its surface.

66264. Pending.

66265. Void.

66266. Precision Valve Corporation. Toothpaste dispensing package and method of producing same. Wherein the toothpaste having a viscosity ranging from 20,000-200,000 centipoises is pressurized with inert and insoluble gaseous propellant.

66267. Pending.

66268. Societe Des Electrodes et Refractaires "Savoie". Process for the production of refractory articles having a high mullite content. (October 28 1958.) Reacting 45—55 per cent. of kaolinic clay with 55 to 45 per cent. by weight of subdivided γ -alumina.

66269. Void.

66270. F. Hoffmann-La Roche & Co. Aktiengesellschaft. Process for the manufacture of dihydroxycarotene compounds and esters thereof. Reacting β -carotene or 15:15'-dehydro- β -carotene successively with N-bromosuccinimide and a tertiary organic base and saponifying the resulting 4:4'-dihydroxy carotene ester product.

66271. Libbey-Owens-Ford Glass Company. Apparatus for bending glass sheets. Adjustable means are provided for adjustably connecting movable mold section to mold section support to selectively alter the closing speed of the mold.

66272. Void.

DECEMBER 30.

66273. Hoesch-Westfalenhutte Aktiengesellschaft and Chamotte-Industrie Hagen-Burger Schwalb Aktiengesellschaft. Improvements in or relating to checker work for regenerative heating chambers of industrial furnaces. Wherein for mutual engagement the alternate layers of bricks have cavities such as flat base with outwardly slopping divergent sides in one row and flat base with perpendicular sides in other row.

66274. Les Laboratoires Dausse. Process for the production of urea compounds. [Addition to No. 65270.] Wherein a urea compound of the class consisting of N'-(2-methyl-phenyl)N''- β -chloroethyl urea, N'-(methyl-phenyl)N''- β -chloroethyl urea, N'-(2-methyl-6-chloro-phenyl) N''- β -chloroethyl urea and N'-bornyl N''- β -chloroethyl urea is treated in water at the boiling point thereof.

66275. The General Electric Company Limited. Improvements in or relating to low pressure mercury vapour fluorescent electric discharge lamps. (January 6, 1958.) Wherein at least one of the foot-tubes at the ends of the envelope has a length, and/or an external diameter at least at a region spaced from the end of the envelope at which the foot-tube is mounted.

66276. Maschinenfabrik Burckhardt A.G. Improvements relating to hollow concentric compound cylinders. Comprises two cylinders shrunk over one another wherein the inner cylinder is made of a material having a higher modulus of elasticity than the outer cylinder.

66277. The Keelavite Company Limited. Improvements relating to hydraulic power transmission systems. (January 8, 1958.) Variable capacity hydraulic pump and motor in combination with a servo-motor arranged to control the pump or motor capacity, for the variation of transmission on ratio.

66278. The Patent Tiffin Carrier Sanghvi Co. Improvements in or relating to tiffin carriers. Having containers pivotally mounted on guide rods arranged with their axes in a circle, a central spindle and means on the latter so that when the central spindle is turned, the containers come out or within the framework of tiffin carrier.

66279. The Patent Tiffin Carrier Sanghvi Co. Electric toasters. Comprising a frame with vertical heating element vertical guide rods each carrying a rack to hold toast and means for turning toast racks along guide rods to that rack travel towards or away from heating element.

66280. Pharma Trading Co. (Private) Ltd. Securing device for crates. A body having prongs to be driven into the crate, the prongs having slots through which a fastening element of tapered shape and with one or more shoulders is to be driven in to engage the prongs.

66281. Libbey-Owens-Ford Glass Company. Apparatus for bending glass sheets. Comprising an outline bending mold having shaping surface formed thereon and including a movable mold section mounted for rotative movement.

66282. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to preparations for combating noxious organisms. Comprising 3-phenyl-5-halogeno-1,2,4-thiadiazol and a carrier.

66283. N. V. Philips' Gloeilampenfabrieken. Improvements in or relating to a method of fusing a contact onto a semi-conductive body. Using an alloying jig, wherein the deposition area for the contact material communicates by way of a duct with a deposition area for a semi-conductive body.

66284. K. Abildgaard. Method for the production of phenyl-alkyne-diols. (January 2, 1958.) 2-phenylacetone is reacted with a member of the group consisting of acetylene, methyl acetylene and ethylacetylene.

66285. Void.

66286. Void.

66287. Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of alkali metal chlorites and alkaline-earth metal chlorites. Reducing aqueous chloride-dioxide solutions by means of alkali metal or alkaline earth metal amalgam, wherein dilute acid is added to the solution continuously.

66288. Vapor Heating Corporation. Variable resistance device. Bore has a resistance element in the form of a coating of a solid solution of a metallic carbide in a metal having coefficient of expansion substantially identical to the coefficient of expansion of the material of the capillary tube.

66289. Void.

DECEMBER 31.

66290. Merck & Co. Inc. Process for the preparation of 4-quinazolone compounds. (February 3, 1958.) A carboxy sulphamyl aniline is heated to form a 4-quinazolone.

66291. Merck & Co. Inc. Process for the preparation of a sulfamyl-anthranilic acid. (February 3, 1958.) 2-Methylaniline is oxidized, the product is (a) hydrolysed and if desired reacted with a haloalkyl carbonate an amidated or esterified or (b) is converted to the acid chloride and then amidated or esterified.

66292. Roskilde Medical Company Ltd., (R. M. C.) (Danske Andelsslagteriers Konserverfabrik A.m.b.A.). Method for the production and conservation of metalinsulin compounds. Adding high molecular substances or condensation products or decomposition compounds thereof, to insulin in presence of aqueous media.

PART II.

Subject-Matter Index of Patent Applications for the year 1958.

This index covers all the published Applications included in the Chronological List in Part I of this volume. The entries are given by the Serial Numbers of the Applications ; the date and other particulars may be found by reference to the List. This index forms a continuation of the indexes contained in the Consolidated Subject-Matter Index 1912-1932 and the Patent Office Journals published since 1934.

Each main class is distinguished by a symbol such as "LX(1)".

A

Absorbent hemostatic surgical sponge material, *see* MEDICAL, ETC.

Accumulators electric, *see* BATTERIES, ETC.

Accumulators electric separators for, *see* BATTERIES, ETC.

Acetic acid and salts and esters, *see* CARBON COMPOUNDS, ETC.

Acetylene, *see* CARBON COMPOUNDS, ETC.

Acetylene separating from gas mixtures by absorption in selective solvents,
see CHEMICAL PROCESSES, ETC.

Acid amides, *see* CARBON COMPOUNDS, ETC.

Acricidal compositions, *see* DISINFECTING, ETC.

Adhesive compositions, other than containing rubber, *see* ADHESIVE, ETC.

ADHESIVE MATERIALS AND COMPOSITIONS (OTHER THAN RUBBER). XLII(1).

Compositions (for joining surface to surface by a thin layer excepting gelatine gum and starch). 63318, 63633, 63639, 65457, 65872, 65977.

Gelatine and glue preparation of. 62990, 65949.

Gums and like plant products preparation of. No case.

lac and rosin dissolved in methylated spirit, *see* Compositions, etc.

Sizes and finishes for paper and textile materials other than resin sizes.
65242.

Starch, dextrine and gluten, preparation of. No case.

ADVERTISING AND DISPLAYING APPARATUS (OTHER THAN MONOGRAMIC APPARATUS). XLI(1).

(This heading does not include articles of utility which are adapted to carry advertisements.)

advertising and signalling, monogramic apparatus for, *see* SIGNALS.
(MISCELLANEOUS).

ADVERTISING, ETC.—contd.

Moving and changing—

Illuminated and optical apparatus. No case.

Other than illuminated and optical apparatus. No case.

Other than moving—

Attached advertisements on vehicles and miscellaneous articles. 64243.

Boards and posters. No case.

smoke and sky signs *see* SIGNALS (MISCELLANEOUS).

Miscellaneous. 65014.

AERATING LIQUIDS. XIV(1).

aerating sewage eludge, *see* SEWAGE, ETC.

Apparatus other than siphon bottles. 63091, 65562.

device for attachment to a water supply system, for aerating purposes, *see* Apparatus other, etc.

Siphon bottles. No case.

Aerials, and like radiating and receiving conductors, *see* WIRELESS, ETC.

AERONAUTICS. LIII(1).

(This heading does not include construction of instruments fitted on aircraft for indicating, observing and recording purposes or for use in aerial warfare or articles of furniture and wearing apparel.)

Details and accessories apart from general design—

Controlling, steering and balancing. 62742.

Fuselage and body construction. No case.

Launching, and landing including landing gear construction. No case.

Miscellaneous details—

Ejection seats. 63171, 63351, 63362, 65296, 65353, 65517.

Fright carrier components. 63351.

Mutticonnectors. 63362.

Parachutes. No case.

Planes and wings. No case.

Propelling. No case.

ejection seats for aircrafts, *see* Details, etc. (Miscellaneous, etc.).

Heavier-than-air aircraft, general design of. No case.

Lighter-than-air aircraft, general design of. No case.

AGRICULTURAL IMPLEMENTS. I(1).

(This heading includes only cultivating, gardening and harvesting appliances. For farmyard appliances see ANIMALS, ETC.).

angling devices for disc ploughs, *see* Cultivating, etc.

control mechanism in a tractor, *see* Cultivating, etc.

Cultivating implements. 62785, 62786, 62926, 62928, 62930, 62931, 63045, 63096, 63854, 63855, 63936, 64420, 64421, 65481.

Gardening appliances. 62766, 66105.

Harvesting appliances. 62766, 62927, 64227.

Miscellaneous agricultural implements—

62786, 62923, 65242, 65883, 65885, 66259.

AGRICULTURAL, ETC.—contd.

Sowing appliances. 63185, 63548, 63922, 63935, 65019.
 support structure for seed drilling machine, *see* Sowing, etc.
 tea leave picking machine, *see* Harvesting, etc.
 weed destroying composition herbicides, *see* DISINFECTING, ETC.

AIR AND GASES, TREATING. XLVII(1).

(This heading does not include cooling, drying and heating of air and gases, and ventilations.)

a suction cleaner, *see* compressing, etc.—(vacuum, etc.).
 apparatus for separation of fine solid particles from a gas containing these particles, *see* Treating, etc.—(Separating, etc.).

Compressing, exhausting and moving—

Bellows and air-pump using flexible bags or diaphragms. No case.

Miscellaneous. 63466, 64711, 64731, 65525.

Piston pumps. 65146, 65147, 65148, 65223.

Vacuum and pressure cleaning and dusting apparatus, domestic. 64173, 66219.

fluids under pressure, containers for, *see* Treating otherwise, etc.—Storing under pressure.

reciprocating compressors, *see* Compressing, etc. (Piston, etc.).

Treating otherwise than by compressing and exhausting and moving—

Liquefying, solidifying and revaporising. 62895, 64213, 64411, 65989.

Miscellaneous—

63348, 64508, 64527, 66007.

Separating dust, fog and solid particles from, other than by washing. 62812, 63308, 64287, 64411, 64711, 64765, 65888, 66007.

Storing under pressure. 62971, 63466, 65488, 65771.

Air compressors, rotary, *see* ROTARY ENGINES, ETC.

Air conditioning for ventilation, *see* VENTILATION.

Air operated governors, *see* GOVERNORS, ETC.

ALARMS, BURGLAR AND THE LIKE AUTOMATIC. LI(1).

No case.

ALARMS FIRE AND TEMPERATURE. XXXIX(1).

63124.

Alcohol, *see* CARBON COMPOUNDS, ETC.

Aldehydes, *see* CARBON COMPOUNDS, ETC.

Alkaline Silicate, *see* CHEMICAL COMPOUNDS, ETC.

Alkaloids, and their salts, *see* CARBON COMPOUNDS, ETC.

Alkyl aluminium etherates, *see* CARBON COMPOUNDS, ETC.

Allopregnane compounds, *see* CARBON COMPOUNDS, ETC.

ALLOYS XXXIII(1).

Containing aluminium but not iron. 65448, 65495.

Containing barium, calcium, magnesium and strontium (but not aluminium and iron). No case.

Containing chromium (but not containing aluminium, barium, etc., and iron). No case.

Containing iron. 64514, 65070, 65448, 65495, 65581.

ALLOYS. XXXIII(1)—contd.

Containing molybdenum, nickel, potassium, sodium tantalum, titanium, tungsten, uraneum, vanadium, zinc, zirconium, copper, lead, manganese and other miscellaneous metals (but not iron, aluminium, barium, etc., and chromium). 63612.

Making processes. 64514, 65231, 65437, 65448, 66051.

refining, *see* Making processes.

Aluminium production by electrolysis, *see* ELECTROLYSIS.

Amide of phosphoric acid, *see* CARBON COMPOUNDS, ETC.

Amines, *see* CARBON COMPOUNDS, ETC.

Amino acid hydrazides, *see* CARBON COMPOUNDS, ETC.

Amino acids, *see* CARBON COMPOUNDS, ETC.

Amino diols, *see* CARBON COMPOUNDS.

Amino ethanols, *see* CARBON COMPOUNDS, ETC.

AMMUNITION AND AMMUNITION RECETACLES . XXXIX(2).

Ammunition cartridges. 63857.

Blasting and minir.g cartridges, charges, detonators, fuzes and tappings, 63324, 63532, 63642.

Cartridge loading, unloading, and finishing off. No case.

fuses for shell throners, *see* Projectile fuses, etc.

igniters, *see* Blasting, etc.

ignition devices for rockets, *see* Projectile fuses, etc.

Packing, storing and handling ammunition (special devices for). No case.

Projectile fuses and apparatus for setting. 63232, 63376, 63532, 63585, 63642, 63971, 63972, 64460.

Projectiles. 63585, 63642, 63906, 63971, 63972, 64367.

rockets, *see* Projection, etc.

Anilides, *see* CARBON COMPOUNDS, ETC.

Animal feed stuff, *see* ANIMALS, ETC.

Animal power engines, *see* MOTORS, ETC.

ANIMALS, HOUSING, FEEDING, CATCHING, DESTROYING AND FARM-YARD APPLIANCES. I(2).

Destroying appliances (other than traps). 66157.

feedstuff for, *see* Miscellaneous.

Guards for preventing access of insects and animals. No case.

Miscellaneous.

Animal feed. 62897, 66179.

Composition for administration to domestic animals. 63013.

Feed stuff. 63764.

Feedstuffs for animals. 64436.

Food stuff for animals. 63409.

Veterinary compositions. 64881.

Traps for catching animals and insects. No case.

Anion exchange resins production by polymerisation, *see* CARBON COMPOUNDS, ETC.

**ANNEALING, TEMPERING AND MODIFYING CHARACTER OF METALS.
XXXIII(2).**

Annealing boxes and like receptacles for heat treatment. No case.

Cementation (including case hardening, malleabilising and otherwise modifying chemical characters of metals). No case.

Heating and cooling, treatment by. 66071, 66144.

Miscellaneous. No case.

Anodes for electrolysis, *see* ELECTROLYSIS, ETC.

Anodes for electrolytic cells, *see* ELECTROLYSIS, ETC.

Anthelmintic compositions, *see* DISINFECTING, ETC.

Anthraquinone dyes, *see* CARBON COMPOUNDS, ETC.

Antibacterial compositions, *see* DISINFECTING, ETC.

Antibiotic compositions, *see* DISINFECTING, ETC.

Anticorrosive compositions, *see* INCRUSTATION, ETC.

Anticorrosive painting compositions, *see* PAINTS, ETC.

Anticurl device for garments, *see* DRESS, ETC.

Artificial threads, *see* CELLULOSE, ETC.

Antifriction bearings, *see* BEARINGS, ETC.

Antiknock motor fuels, *see* FUELS, ETC.

Apparatus, cinematographic, *see* CINEMATOGRAPHY, ETC.

Apparatus for curing colouring or other treatments of tobacco leaves, *see* CIGARS, ETC.

Apparatus for delivering a measured quantity of liquid, *see* MEASURES, ETC.

Apparatus for mechanically disintegrating refuse or like waste matter, *see* GRINDING, ETC.

Apparatus for slide fasteners, *see* FASTENING, ETC.

Apparatus for separation of solid particles from gas, *see* AIR AND, ETC.

Apparatus for the manufacture of pneumatic tyres, *see* WHEELS, ETC.

Appetite depressant compositions, *see* DISINFECTING, ETC.

Arginine glutamate, *see* CARBON COMPOUNDS, ETC.

Armature windings for dynamo-electric machines, *see* DYNAMO-ELECTRIC, ETC.

Artificial films from resins, *see* CELLULOSE, ETC.

Arylphosphates, *see* CARBON COMPOUNDS, ETC.

Automatic control systems electric, *see* ELECTRIC SIGNALLING, ETC.

Automatic coupling for Railway vehicles, *see* RAILWAY, ETC.

Azepine derivatives, *see* CARBON COMPOUNDS, ETC.

Azo dyes, *see* CARBON COMPOUNDS, ETC.

B

Bacteriophages, *see* DISINFECTING, ETC.

**BAGS, PURSES, SACKS, PORTMANTEAUX, BASKETS AND WICKER WORK.
XL(1).**

Bags, sacks, wrappers and like relatively flexible packages (other than of paper). 65363.

Baskets woven crates and wickerworking. No case.

Paper bags, wrappers and like (including making envelopes). 64125, 65363.

BAGS, ETC.—contd.

Portmanteaux, suitcases, bags and like relatively non-flexible article carriers.
No case.

envelopes, postal wrappers, *see* Paper bags, etc.

holdalls, *see* Bags, etc.

hat boxes, *see* Portmanteaux, etc.

knapsacks, *see* Bags, etc.

leather purses, *see* Portmanteaux, etc.

luncheon baskets and picnic fitted, *see* Portmanteaux, etc.

mails bags, *see* Bags, etc.

Bale openers, *see* SPINNING, ETC.

Ball bearings, *see* BEARINGS, ETC.

Ball pointed writing instrument, *see* WRITING APPLIANCES, ETC.

BATTERIES, ELECTRIC. LVIII(1).

Accumulators—

Details, unclassified. 63715, 65088, 65578, 66091.

Electrodes, separators and like components, forms and arrangement of.
62940, 63080, 63159, 63278, 63437, 63479, 63905, 64123, 64962, 64970, 64983,
65088, 65294, 65498.

Electrolytes for charging. 65294, 65734.

Dry cells. 64522, 64534, 64744, 65294, 65371, 65372, 65388, 65389, 66116.

electrolytic pellets for dry cells, *see* Dry cells.

Miscellaneous. No case.

possative plate coated with lead, *see* Accumulators—(Electrodes, etc.).

Primary cells, other than dry cells—

Components other than electrolytes, depolarisers and electrodes. No case.

Electrolytes, depolarisers, and electrodes forms and arrangement of.
62768, 63731, 63737, 65696.

separators for, *see* Accumulators—(Electrodes, etc.).

storage battery, assembly of cells in container of *see* Accumulators, etc.
(Details, etc.).

storage cell boxes, *see* Accumulators, etc.—(Details, etc.).

storage cells, gas exits, collectors and absorbers, *see* Accumulators, etc.—
(Details, etc.).

tubular type plates for electric accumulators, *see* Electrodes, etc.

BEARINGS AND BEARING SURFACES. LIV(1).

(This heading does not include jewel bearings, for clock, electricity meters, etc.
for which, *see* respective headings. Furniture castors are indexed under
FURNITURE.)

Axle boxes, railway vehicle. No case.

Ball bearings. 64190, 64285, 65760.

bearings made of plastic material without any ball, *see* Bearings, other,
etc.

Bearings, other than ball, roller and axle-boxes. 63873, 64538, 64554, 65788.
linings for composite bearings, apparatus for casting of, *see* CASTING, ETC.

BEARINGS AND BEARING SURFACES. LIV(1)—contd.

Miscellaneous, details applicable to bearings in general—

Arrangements for bottom rolls. 64538.

Bearing mounting. 63405.

Method of manufacturing for. 64285.

Press fitting of bearings. 64169.

Removal of force fitted parts from shafts. 63371.

Sealing rings for bearings. 63167.

Roller bearings. 62756, 62777, 64986, 66006.

BELLS, HORNS, WHISTLES AND THE LIKE. LX(1).

(This heading includes only the construction of bells and horns, etc. Arrangement of bells, etc., for definite purposes are indexed only under headings for such purposes, such as SIGNALS, MISCELLANEOUS; ELECTRIC SIGNALLING, ETC.).

Bells. 64904.

Diaphragm, plate, rod and tube vibrators (excepting PHONOGRAPHS, ETC., TELEPHONES, ETC.). 64524.

Fog and like warning horns (other than diaphragm, plate, and rod vibrators). No case.

Sound magnifying and directing appliances. 64524.

Whistles. No case.

Belt Conveyor, *see* LIFTING, LOADING, ETC.

Belt-tensioning means for spinning & twisting spindles, *see* SPINNING, ETC.

Bending glass, *see* GLASS, ETC.

Bending machines for metal tubes or pipes, *see* METAL WORKING.

Benzene sulphonyl urea, *see* CARBON COMPOUNDS, ETC.

Benzimidazoles, *see* CARBON COMPOUNDS, ETC.

Benzinidazoles, *see* CARBON COMPOUNDS, ETC.

Benzesothizol derivatives, *see* CARBON COMPOUNDS, ETC.

Benzoaminolizine carbunols, *see* CARBON COMPOUNDS, ETC.

Benzythiazines, *see* CARBON COMPOUNDS, ETC.

BEVERAGES, MALT PRODUCTS AND ORGANIZED PERMENTS (OTHER THAN AERATING BEVERAGES). XIV(2).

*(This heading does not include making of tea, coffee and like beverages for which *see* DECOCTIONS, ETC. Milk and cream are indexed under FOOD, ETC. Steps in the process for the production of beverages involving improvements in cooling, heating, filtering, etc., are indexed under the headings denoting such operation.)*

Beverages (including alcoholic beverages produced by fermentation)—

Ageing, maturing and purifying (other than tea, coffee and like infusions, making and preparing). No case.

Fermenting. 64431.

Fruit juices, extracts and syrups, lemonades. 64431, 66094.

Materials and compositions. 64431, 65163.

Wort producing and treating. No case.

Fusel oils. No case.

Malts and malting and malt extracts compositions. 64458, 65695.

BEVERAGES, ETC.—contd.

Miscellaneous. No case.

Yeast and other organised ferments (other than Bacteria, cultivating).
No case.

Beverages other than tea coffee and like, *see* BEVERAGES, ETC.

Birthing installations of ships, *see* SHIPS & BOATS.

Bisulfite solutions, inorganic, *see* CHEMICAL COMPOUNDS, ETC.

BITUMINOUS EMULSIONS. XXVII(1).

No case.

Blast furnaces, *see* FURNACES ETC.

Blood pressure measuring apparatus, *see* MEDICAL, ETC.

Boards of panels of wood making, *see* WOOD CUTTINGS, ETC.

Boats, *see* SHIPS, ETC.

Boiler tubes, cleaning, *see* PIPES, ETC.

Bolts, door and like, *see* FASTENINGS, ETC.

BOLTS, STUDS, NUTS, WASHERS AND RIVETS. LXIV(1).

Bolts, studs, nuts and washers, construction of (other than those modified for locking). 65768.

Locking by—

Devices, not otherwise provided for. No case.

Grip between threads of nuts and bolts only. 63518.

Keys, pawls, rollers, balls, coiled springs and like. 65369.

Washers. 65476.

Miscellaneous. No case.

Rivets. No case.

Screw sockets and bolt-hole bushes (including sockets and plugs for wood screws and nails). 63325.

tubular threaded fasteners, *see* Screw sockets, etc.

BOOKS, STATIONERY, SEALS, CIPHERS AND EDUCATIONAL APPLIANCES. XLII(2).

(Loose leaf books are indexed under FILING.)

Books, mercantile, forms and like. No case.

picture, photograph like mounts, *see* Stationery, etc.

Stationery, wafers and seals, and codes and educational appliances (including albums picture and picture frames). 63318, 63641, 64953, 65014, 65758.

envelopes, making *see* BAGS, ETC.

book binding, *see* Books, etc.

indexing and cataloguing, *see* Books, etc.

maps and charts, *see* Stationery, etc.

globes and orreries, *see* Stationery, etc.

models, *see* Stationery, etc.

BOOTS AND SHOES. LXVI(1).

*(For cutting and punching operations on shoe parts before assembling, *see* CUTTING, ETC.).*

Apparatus for making and repairing. 63210, 65168, 65169, 65837.

Construction of (including methods of making). 63601, 64157, 64197, 64495, 64770, 64798, 65169.

BOOTS AND SHOES. LXVI(1)—contd.

Moulding for foot wear, see MOULDING, ETC.

Protectors, trees and other accessories for. 64741.

resilient shoe soles, see Construction of, etc.

shoe fastening device, see Construction, etc.

shoe horns, see Protectors, etc.

Bottle capsule opener, see STOPPERING, ETC.

BOTTLES, JARS AND LIKE VESSELS. XL(2).

(This heading comprises only vessels of glass and like vitreous materials, earthenware and stone-ware. Cold and heat retaining vessels are indexed under COOLING. Capsules, medical and like are indexed under DISINFECTING. Cruets and condiment receptacles are indexed under TABLE ARTICLES. Siphon bottles are indexed under AERATING.)

No case.

bottling, see STOPPERING, ETC.

closing, see STOPPERING, ETC.

opening, see STOPPERING, ETC.

siphon bottles, see AERATING, ETC.

washing, see WASHING AND CLEANING.

BOXES AND CASES. XL(3).

(This heading includes only constructions, fittings and details of containers for displaying storing and transit of articles and materials. Casings intimately associated with particular articles and not of interest as containers for other articles such as Clock cases are indexed under the headings for the articles.)

Apparatus for making and finishing boxes and cases. No case.

Boxes, and cases, other than folding match and money boxes and letter boxes. 64218, 64444, 64754.

Cases for card, tickets, stamps and like. 63288, 65972.

Coffins. No case.

hat boxes, see BAGS, ETC.

containers for cards, see Cases for cards, etc.

Folding, collapsible or knock down cases and crates. 64781, 65363, 66280.

Letter boxes and like. No case.

Match boxes, cigarette boxes and like boxes of drawer and shell type. 63153, 63251, 63288.

Miscellaneous—

63106, 63467.

Money boxes, specially designed for money. No case.

BRAKES AND RETARDING APPARATUS. LV.

Actuated by hand or mechanical power (other than fluid pressure or electric), not forming part of the brake. 63840.

Brake block, shoes and like energy absorbing elements. 65828.

braking systems, fluid actuated, see Fluid etc. (systems, etc.).

control, electric, for, see Electric, etc.

Electric and magnetic brakes—

63008.

BRAKES, ETC.—*contd.*

electrically controlled fluid pressure systems, *see* Fluid, etc.

electric control for fluid actuated brakes, *see* Fluid, etc., Electric, etc.

Fluid pressure actuated—

Cylinders, vacuum chambers, reservoirs and their appertenances. 64850, 64851, 64852.

Drivers and like valves (including emergency equalising and feeding valves). 64252, 64423, 64660, 64707, 64850, 64851, 64852, 65268, 65269, 65499, 65500, 66227.

Electric control. 63008, 64850, 64851, 64852, 65499, 65559.

Systems, details other than cylinders, valves and electric control. 63086, 63358, 63369, 63840.

Force transmitting and equalising arrangements. 63462, 64278, 64695.

hydraulically operated braking system, *see* Fluid, etc.—(system, etc.).

means mounted on railway which for varying braking depending on the load of the vehicle, *see* Fluid, etc.—(system, etc.).

mechanically operated braking system, *see* Actuated, etc.

Miscellaneous. No case.

triple valve for compressed fluid braking apparatus, *see* Fluid, etc. (Drivers, etc.)

Brakes for stopping spindles in spinning and twisting frames, *see* SPINNING AND TWISTING, ETC.

Braking system for winding engines, havelages and rotating machines, *see* BRAKES, ETC.

Braking system such as wheels of aeroplanes, *see* BRAKES, ETC.

Brake apparatus for railway vehicles, *see* BRAKES, ETC.

BRICKS, BLOCKS, SLABS, TILES AND POTTERY. XXV(1).

Blocks, slabs and tiles (other than compound). 64351, 64984, 64991, 65134, 65135.

brick making or moulding apparatus, *see* MOULDING, ETC.

Compositions and processes of making, blocks, slabs and tiles. 64716, 65133, 65134, 65135, 65610.

Compound or composite blocks. 65134, 65135.

enamelling and enamels, *see* GLASS MANUFACTURE.

Miscellaneous. No case.

moulding bricks, blocks and the like, *see* MOULDING, ETC.

Pottery, manufacture of. 65823.

Brequittes, fuel, *see* FUEL MANUFACTURE.

Brush and contact mechanism for dynamos, *see* DYNAMO-ELECTRIC, ETC.

BRUSHING AND SWEEPING. XLIII(1).

63613, 65612.

Building construction of prefabricated elements, *see* BUILDINGS, ETC.

BUILDINGS AND STRUCTURES. XXVI(1).

(Buildings sub-aqueous, such as caissons, cofferdams, and sluice gates are indexed under HYDRAULIC ENGINEERING.)

Bridges and aqueducts. 63210, 64141.

Buildings other than bridges, tents and sub-aqueous buildings. 62962, 63040, 63306, 63769, 64802, 65787.

BUILDINGS, ETC.—contd.

Casting and moulding *in situ*. 64096, 65118, 65288, 65787.

Columns. 65015.

Floors and ceilings (including roofs and roofing). 64095, 65475, 65496, 65600.
floors for railway carrier ages and wagons, *see* RAILWAY, ETC., VEHICLES, ETC.

Girders and beams. 63410, 64541.

glazing bar assemblies, *see* Miscellaneous.

Ironwork, constructional, metal plates, rods and bars (excepting those modified for use with special kinds of structures such as Reinforced concrete; SHIPS, ETC.). 64462, 64675, 65600, 65787.

Joints, Carpenters' (wood joints with interfitting parts). 64675.

joints for, other than of metal and wood, *see* Miscellaneous.

joints, reinforcements for, *see* Reinforced, etc.

metal joints for, *see* Ironwork, etc.

Miscellaneous.—

62814, 63962, 64141, 64246, 64675, 64954, 64981, 65430.

panels, *see* Miscellaneous.

Plastering. 63588.

Posts and poles. 65015.

Prestressed concrete, *see* Reinforced, etc.

prestressed reinforced concrete, *see* Reinforced, etc.

Reinforced concrete and reinforcements (constructions of interest apart from structures made thereof). 62788, 62965, 63421, 63580, 64095, 64675, 64725, 65136, 65361, 65768.

Scaffolding and staging. 62788, 62835, 64573.

tensioning reinforcements, *see* Reinforced, etc.

Tents and awnings. No case.

Walls and partitions. 64095, 64981, 65475, 65624, 65787.

wooden joints for, *see* Joints, etc.

Buildings ships and vehicles cooling, *see* COOLING, ETC.

Buildings, ships and vehicles systems for heating, *see* HEATING SYSTEMS, ETC.

BURNERS AND BURNER FITTINGS.XXX(1).

Atmospheric, incandescent lamp and like (*i.e.*, in which combustible gas is mixed with air or carburant before reaching combustion zone). 62984, 63253, 64207, 64332, 64601, 65375, 65465, 65648, 66207.

Blow-pipe and like pressure type. 63963, 65648.

Miscellaneous—

Flash lamps. 64408, 64409.

liquid fuel burners of atomiser type, *see* Spray, etc.

Open tray, spirit and like burners, without any special vaporising devices.
No case.

pressure type jet burners, *see* Blow pipe, etc.

Pulverised fuel. 63103.

Spray. 64067, 64858, 66158.

Wick, with vaporising means. No case.

Burners, application of, to metal welding, or cutting, *see* METAL WORKING.

C

Cable conveyers and aerial ropeways, *see* LIFTING, ETC.

Cable electric, *see* CONDUCTORS, ETC.

Cable reel or drum, *see* PIPES AND TUBES, ETC.

Cables, electric, *see* CONDUCTORS, ETC.

Calcining, burning or sintering cement, *see* CEMENT, ETC.

CALCULATING, COUNTING AND CASH REGISTERING APPARATUS. XLI(2).

Calculating apparatus (other than for cash registers and statistical machines).
62999, 63356 63363, 63714, 64925, 64995, 65210, 65357, 65378, 65524, 65583.

Cash and sales recorders and money delivering apparatus. No case.

containers for tabulating cards, *see* BOXES, ETC.

Counting apparatus. 63428, 63429.

electronic computers data storage devices for, *see* Calculating, etc.

pulse counting circuits, *see* Counting, etc.

Statistical machines. 62999, 65524.

Totalisators and like automatic wagering apparatus. No case.

Calculating machine, *see* CALCULATING, ETC.

Calender for fabrics, *see* FABRICS, FINISHING.

CANDLES AND TAPERS. XXX(2).

No case.

Cap for closing the mouth of container, *see* STOPPERING, ETC.

CAPACITANCES, RESISTANCES AND INDUCTANCES ELECTRIC. LVIII(2).

chokes, *see* Inductances, etc.

Condensers. 62868, 63108, 63635, 64477, 65092.

impragnating medium for condensers, *see* Condensers.

Inductances. 62972, 63851 64088, 64178, 65451, 65842, 65881.

Resistances. 64002, 65132, 65159, 65301, 66288.

Capacitors, *see* CAPACITANCES, ETC.

Car coupler, *see* RAILWAY AND TRAMWAY VEHICLES, ETC.

Carbamic acid esters, *see* CARBON COMPOUNDS, ETC.

Carbide bonded graphite refractory bodies, *see* CEMENTS, ETC.

Carbides, *see* CHEMICAL COMPOUNDS, ETC.

Carbomic acid esters, *see* CARBON COMPOUNDS, ETC.

Carbon black, *see* NON-METALLIC, ETC.

CARBON COMPOUNDS, ORGANIC. IX(1).

(*Excepting* CELLULOSE ; FATS, ETC.; *Fatty acids for soap making* Glucose ;
Maltose, etc.; Gums ; Oils (*essential mineral and tar*); *Starch and dextrin* ;
SUGAR ; WAXES.)

acylpolysilicates of unknown constitution, *see* Miscellaneous.

alkaloids, *see* Miscellaneous.

alkaloids of unknown structure, *see* Miscellaneous.

anhydrous ferrous fumarate, *see* Substitution, etc. (Oxygen, etc., Carboxylic,
etc.)

CARBON COMPOUNDS, ETC.—contd.

aromatic hydrocarbon, removing thiophenes from, *see* Hydrocarbons, etc.

carbamic acid ester, *see* Substitution, etc. (Nitrogen, etc.)

Dyes and lakes—

Azo dyes (for azo compounds which are not dyes, *see* Substitution derivatives, etc.). 62757, 62784, 63003, 63018, 63221, 63533, 63564, 63629, 63801, 63953, 63979, 63990, 64050, 64118, 64158, 64159, 64160, 64183, 64313, 64585, 64607, 64663, 64763, 64801, 64831, 64832, 64907, 64977, 64979, 65041, 65277, 65319, 65405, 65416, 65456, 65467, 65478, 65479, 65507, 65562, 65654, 65832, 66001, 66246.

Dyes, other than azo dyes. 63221, 63305, 63556, 63801, 63819, 63961, 64185, 64328, 64416, 64493, 64567, 64663, 64709, 64730, 64762, 64831, 64861, 64868, 65104, 65178, 65456, 65503, 65584, 65657, 65674, 65906, 66035, 66067, 66201.

gibberrellic acid, *see* Miscellaneous.

Hydrocarbons and unsubstituted heterocyclic compounds and their homologues. 62767, 63079, 63394, 63497, 64025, 64101, 64112, 64264, 64424, 64745, 64929, 65161, 65267, 65368, 65461, 65743.

Miscellaneous. 62954, 63016, 63017, 63175, 63176, 63355, 63418, 63929, 64564, 65283, 65366, 66096, 66163, 66196.

Organo metallic compounds. 62809, 63132, 63133, 63672, 63933, 64281, 64775, 64787, 64821, 65097.

polymers removing catalyst residens from, *see* Resinous, etc.

process for the manufacture of foamed or homogenous polyurethane products, *see* Resinous, etc.

Resinous condensation and polymerisation products of undetermined structure. 62803, 62850, 62852, 62855, 62856, 62899, 62913, 62932, 62974, 62979, 63021, 63038, 63128, 63136, 63139, 63180, 63296, 63321, 63341, 63342, 63382, 63400, 63404, 63453, 63472, 63476, 63476, 63478, 63586, 63587, 63595, 63623, 63682, 63695, 63696, 63698, 63727, 63728, 63743, 63814, 63822, 63857, 63858, 63860, 63867, 63868, 63888, 63927, 63993, 64017, 64018, 64020, 64441, 64064, 64098, 64108, 64109, 64115, 64208, 64209, 64257, 64259, 64260, 64310, 64330, 64361, 64384, 64385, 64389, 64396, 64403, 64485, 64520, 64548, 64568, 64580, 64600, 64628, 64629, 64644, 64729, 64751, 64757, 64769, 64783, 64785, 64816, 64844, 64916, 64987, 64999, 65000, 65001, 65006, 65028, 65061, 65064, 65065, 65089, 65124, 65128, 65140, 65282, 65315, 65415, 65550, 65563, 65592, 65596, 65671, 65688, 65690, 65705, 65715, 65781, 65782, 65786, 65836, 65847, 65867, 65901, 65908, 65928, 65973, 65976, 65988, 65999, 66037, 66128, 66164, 66165, 66181, 66128, 66232, 66243, 66249.

Substitution derivatives of hydrocarbons and heterocyclic compounds other than dyes—

Halogen containing. 62734, 62761, 62762, 62765, 62769, 62776, 62780, 62829, 62830, 62857, 62858, 62891, 62893, 62911, 62916, 62956, 62966, 62967, 62980, 63002, 63004, 63014, 63015, 63030, 63046, 63070, 63087, 63090, 63101, 63131, 63182, 63183, 63224, 63225, 63226, 63227, 63235, 63239, 63243, 63247, 63248, 63326, 63327, 63328, 63329, 63331, 63347, 63361, 63373, 63378, 63391, 63435, 63458, 63455, 63460, 63478, 63536, 63543, 63567, 63602, 63648, 63657, 63669, 63700, 63733, 63750, 63790, 63803, 63818, 63825, 63843, 63874, 63881, 63882, 63900, 63958, 63959, 63974, 63982, 63983, 63984, 63985, 63987, 64023, 64052, 64057, 64091, 64092, 64114, 64181, 64188, 64198, 64265, 64316, 64321, 64326, 64336, 64344, 64347, 64348, 64358, 64359, 64405, 64438, 64440, 64453, 64454, 64455, 64480, 64537, 64589, 64590, 64592, 64593, 64598, 64618, 64625, 64627,

CARBON COMPOUNDS, ETC.—contd.Substitution, etc.—*contd.*Halogen, etc.—*contd.*

64631, 64634, 64638, 64649, 64650, 64656, 64682, 64683, 64691, 64694, 64732, 64734, 64746, 64747, 64748, 64779, 64780, 64799, 64812, 64820, 64831, 64860, 64883, 64889, 64908, 64926, 64978, 64989, 65027, 65053, 65054, 65105, 65106, 65115, 65143, 65157, 65226, 65267, 65270, 65271, 65274, 65293, 65302, 65352, 65367, 65370, 65427, 65515, 65522, 65523, 65543, 65557, 65561, 65570, 65574, 65576, 65585, 65616, 65620, 65621, 65625, 65632, 65667, 65691, 65718, 65764, 65791, 65793, 65809, 65810, 65817, 65826, 65831, 65834, 65873, 65874, 65896, 65987, 66034, 66049, 66054, 66067, 66089, 66090, 66113, 66114, 66135, 66163, 66169, 66170, 66178, 66199, 66232, 66274, 66282, 66290, 66291.

Nitrogen (but not containing halogen)—

Containing aromatic and hydroaromatic ring system, but not containing heterocyclic rings or sulphonamide or sulphonamide group in the molecule.

62771, 62780, 62831, 62957, 62958, 62961, 63030, 63046, 63131, 63160, 63161, 63226, 63228, 63237, 63239, 63248, 63373, 63386, 63455, 63456, 63457, 63458, 63478, 63596, 63663, 63669, 63751, 63803, 63902, 64021, 64030, 64057, 64082, 64087, 64089, 64103, 64222, 64250, 64344, 64359, 64416, 64450, 64451, 64454, 64455, 64580, 64519, 64593, 64656, 64694, 64713, 64746, 64747, 64877, 64883, 64897, 64950, 64952, 64994, 64998, 65001, 65044, 65055, 65136, 65212, 65236, 65292, 65340, 65422, 65471, 65472, 65515, 65576, 65585, 65625, 65667, 65677, 65764, 65777, 65778, 65792, 65793, 65817, 65916, 65936, 65953, 66002, 66003, 66004, 66034, 66135, 66163, 66178, 66213, 66232.

Containing heterocyclic ring system in the molecule, but containing no sulphonamide or sulphonamide group. 62734, 62761, 62762, 62765, 62769,

62770, 62771, 62829, 62830, 62891, 62893, 62911, 62916, 62956, 62958, 62966, 62980, 63004, 63030, 63037, 63042, 63059, 63095, 63101, 63130, 63131, 63135, 63162, 63183, 63220, 63224, 63227, 63233, 63239, 63244, 63248, 63261, 63262, 63309, 63328, 63361, 63384, 63418, 63435, 63459, 63460, 63473, 63478, 63490, 63536, 63567, 63569, 63596, 63606, 63638, 63643, 63648, 63657, 63669, 63700, 63751, 63760, 63773, 63803, 63809, 63825, 63831, 63835, 63874, 63881, 63882, 63900, 63913, 63929, 63958, 63959, 63966, 63973, 63982, 63983, 63984, 63985, 63987, 64000, 64021, 64057, 64087, 64092, 64093, 64103, 64114, 64155, 64161, 64162, 64187, 64188, 64304, 64316, 64317, 64318, 64326, 64336, 64346, 64347, 64348, 64359, 64362, 64405, 64416, 64438, 64440, 64453, 64480, 64503, 64517, 64539, 64566, 64587, 64598, 64603, 64625, 64627, 64656, 64681, 64688, 64694, 64696, 64705, 64706, 64708, 64719, 64734, 64738, 64775, 64775, 64779, 64780, 64789, 64790, 64793, 64820, 64824, 64859, 64860, 64883, 64908, 64926, 64951, 64952, 64975, 64997, 65005, 65053, 65054, 65055, 65095, 65096, 65107, 65136, 65143, 65179, 65192, 65193, 65194, 65195, 65196, 65236, 65252, 65270, 65370, 65396, 65397, 65403, 65414, 65420, 65431, 65442, 65463, 65472, 65477, 65515, 65523, 65557, 65575, 65576, 65586, 65591, 65597, 65632, 65653, 65706, 65707, 65708, 65709, 65710, 65711, 65712, 65728, 65800, 65801, 65817, 65819, 65822, 65826, 65843, 65870, 65873, 65874, 65878, 65933, 65936, 65940, 65953, 65961, 65987, 65990, 66004, 66034, 66068, 66089, 66090, 66125, 66129, 66140, 66146, 66147, 66185, 66199, 66202, 66232.

Containing no ring system in the molecule. 62746, 62898, 62994, 63225, 63386, 63478, 63773, 63791, 63800, 63803, 64030, 64071, 64082, 64087, 64103, 64222, 64450, 64451, 64454, 64590, 64592, 64595, 64634, 64656, 64682, 64759, 64784, 64788, 64910, 65106, 65442, 65576, 65764, 65834, 65861, 65873, 65874, 65896, 65957.

CARBON COMPOUNDS, ETC.—contd.

Substitution, etc.—*contd.*

Nitrogen, etc.—*contd.*

Sulphonamide or sulphonamide derivatives. 63002, 63030, 63247, 63368, 63449, 63552, 63602, 63980, 64008, 64063, 64103, 64187, 63196, 64198, 64224, 64270, 64323, 64416, 64463, 64473, 64589, 64625, 64650, 64799, 64906, 65040, 65293, 65302, 65367, 65570, 65616, 65620, 65693, 65725, 65858, 65892, 65912, 66034, 66044, 66049, 66138, 66150, 66186, 66290, 66291.

Oxygen (but not containing halogen and nitrogen)—

Aldehyde, ether, ester and other miscellaneous groups but not containing carboxylic, ketone and hydroxy groups. 62733, 62771, 62974, 63004, 63126, 63172, 63347, 63352, 63386, 63550, 63565, 63609, 63665, 63710, 63977, 64358, 64403, 64500, 64564, 64756, 64918, 64919, 64920, 64921, 64922, 64923, 64948, 64957, 65031, 65109, 65213, 64214, 65401, 65402, 65436, 64469, 65470, 65490, 65512, 65528, 65529, 65632, 65633, 65704, 65809, 65810, 65896, 66175, 66197.

Carboxylic groups. 62730, 62771, 62790, 62954, 63004, 63017, 63106, 63126, 63386, 63512, 63649, 63684, 64346, 64415, 64500, 64658, 64684, 64862, 65109, 65402, 65436, 65543, 65621, 65914, 66035, 66070, 66113, 66114.

Hydroxy groups but not containing carboxylic and ketonic groups. 62733, 62900, 62943, 63004, 63126, 63211, 63347, 63550, 63708, 63710, 63719, 63834, 64055, 64056, 64255, 64352, 64353, 64532, 64631, 64684, 64708, 64917, 64972, 64989, 65003, 65189, 65401, 65774, 65809, 65810, 65890, 66070, 66161, 66180, 66200, 66284.

Ketonic, anhydride and lactone groups but not containing carboxylic groups. 62733, 62771, 62825, 62827, 62857, 62858, 62890, 63083, 63087, 63090, 63093, 63099, 63187, 63211, 63248, 63301, 63302, 63566, 63609, 63648, 63649, 63684, 63710, 63733, 63768, 63790, 63824, 63834, 64070, 64679, 64239, 64289, 64500, 64515, 64551, 64588, 64649, 64684, 64691, 64693, 64748, 64749, 64914, 64936, 64939, 64972, 64989, 65009, 65026, 65115, 65157, 65227, 65284, 65322, 65427, 65436, 65522, 65528, 65529, 65530, 65587, 65621, 65678, 65630, 65552, 65809, 65810, 65887, 65896, 65996, 66004, 66026, 66027, 66113, 66114,

Sulphur, phosphorous, boron and other elements containing, but not halogen, nitrogen and oxygen. 64856.

Vitamins. 62752, 62988, 62989, 63347, 63480, 64245, 64913, 65303, 65407, 65694, 65931, 65932, 66270.

vulcanisation of copolymers of d. olefines, *see* Rosinous, etc.

Carbon tetrafluoride, *see* CARBON COMPOUNDS, ETC

Carbonizing or coking, *see* COKING, ETC.

Carbostyryl derivative, *see* CARBON COMPOUNDS, ETC.

Carboxylic acid amides, *see* CARBON COMPOUNDS, ETC.

Carboxylic acids, *see* CARBON COMPOUNDS ETC.

Cartons or boxes, *see* BOXES, ETC.

Cartridge cases, *see* AMMUNITION, ETC.

Cartridges, ammunition, *see* AMMUNITION, ETC.

Casting in vacuum, apparatus for, *see* CASTING, ETC.

CASTING METALS. XXXIII(3).

Casting machines and processes dependent on such machines. 62801, 63230, 63312, 63886, 64434, 65735.

CASTING METALS—contd.

Flasks, and boxes, moulders. No case.

Materials and linings for moulds and cores. 66284.

Miscellaneous—

No case.

Moulding machines. 62793, 63808, 64064, 65757.

Moulds and cores. 62792, 63345, 65299.

Patterns. 63345.

Process of castings in general (not dependent on any particular machine). 64084, 64085.

Casting, other than metals, *see* MOULDING, ETC.

Casting plastic material in liquid state, *see* MOULDING, ETC.

Casting, other than metal, *see* MOULDING, ETC.

Catalysts, *see* CHEMICAL PROCESSES, ETC.

Catalytiagents preparation and treatment of, *see* CHEMICAL PROCESSES, ETC.

Catalytic agents, *see* CHEMICAL PROCESSES, ETC.

Catalytic agents preparation and treatment of, *see* CHEMICAL PROCESSES, ETC.

Catalytic composition preparation for, *see* CHEMICAL PROCESSES, ETC.

Catches for doors and windows, *see* DOOR AND, ETC.

Cathode ray tubes, *sée* VACUUM, ETC.

CELLULOSE (NON-FIBROUS) AND DERIVATIVES THEREOF (INCLUDING ARTIFICIAL FILAMENTS, SHEETS MADE FROM CELLULOSE PROTEIN AND LIKE SOLUTIONS). X.

(Steps in processes for production of cellulose and derivatives involving improvements in connection with bleaching, drying, filtering and moulding are indexed under headings denoting such operations.)

Apparatus processes and compositions for making filaments and films, artificial silk and like textile products. 62760, 62899, 62952, 62964, 63038, 63125, 63134, 63136, 63340, 63341, 63343, 63408, 63523, 63531, 63555, 63581, 63623, 63653, 63675, 63717, 63729, 63926, 63932, 64029, 64080, 64114, 64147, 64210, 64221, 64244, 64255, 64268, 64269, 64397, 64403, 64487, 64530, 64569, 64655, 64782, 64785, 64822, 64855, 64892, 65016, 65102, 65103, 65124, 65338, 65392, 65415, 65446, 65603, 64655, 65689, 65715, 65735, 65781, 65794, 65806, 65850, 65908, 65922, 65984, 66214, 66248.

Conversion products such as hydro-cellulose and oxy-cellulose, obtaining (including preparatory treatment of cellulose for the production of cellulose derivatives and solutions of cellulose). No case.

Derivatives, other than esters and ethers (including solutions and dispersions thereof and articles made therefrom). No case.

Esters and ethers of cellulose (including solutions thereof and articles made therefrom). 62751.

fibres artificial making of, *see* Apparatus, etc.

filaments, fibres, threads or film like material treatment of, *see* Apparatus, etc.

film and like sheets, resinous, *see* Apparatus, etc.

heat treatment of artificial running yarns (multifilament structure), *see* Apparatus, etc.

polyalkylene fabric coated with polyethylene film, *see* PROOFING, ETC.

CELLULOSE, ETC.—contd.

polyethylene film composition, *see* Apparatus, etc.

pulp for making sheet materials from synthetic polymers, *see* Apparatus, etc.

sealing edges of three or more thermoplastic films to produce a large single film, *see* Apparatus, etc.

CEMENT, CONCRETE, PLASTER, ARTIFICIAL STONE, ASPHALT AND REFRACTORY MANUFACTURE. XXV(2).

Asphalts, (naturally occurring) preparation and treatment of. 64148, 65266.
bituminous, resinous, fatty, oily and like, plastic compositions, *see* PLASTIC COMPOSITIONS.

burning siliceous raw materials, *see* Cements, etc.

cement clinker, *see* Concrete, etc.

Cement portland. 63644, 64144, 64857, 65337, 65939.

Concretes and mortars, lime, magnesia and magnesium carbonate and cement. 62723, 63141, 63604, 63928, 64035, 65337.

Plaster, lime and chalk plastic compositions. 62832, 65280.

Refractory substances for furnace linings and crucibles and for high temperature purposes. 62732, 63993, 64031, 64267, 64716, 64760, 64761, 64764, 65610, 66268.

slags removal of sulphur from, *see* Slags, etc.

Slags, treatment of. 65073.

Stone, artificial and stone preserving and colouring. (This heading comprises only compositions fused together at high temperatures. For compositions other than those fused at high temperatures, *see* PLASTIC COMPOSITIONS.) No case.

Cementitious materials, manufacture of, *see* CEMENT, ETC.

CENTRIFUGAL AND SCREW FANS AND PUMPS. XLIV(1).

Centrifugal fans and pumps—

Casings and structural details, other than blades and driving gear. 63166, 63181, 63517, 63907, 64284, 64285, 64286, 65090, 65747, 65797, 65965, 65970, 66033, 66208.

Driving gear and regulating means. No case.

Impeller blades, construction and mounting of. 63166, 63181, 64168.

Screw fans and pumps—

Casings and structural details other than blades and driving gear. 63907, 65090, 65963, 65965, 65966, 65970, 66033, 66208.

Driving gear and regulating means. 62754.

Impeller blades, construction and mounting of. 62908.

Centrifugal can spinning *see* SPINNING, ETC.

Centrifugal casting machines, *see* CASTING, ETC.

CENTRIFUGAL MACHINES AND APPARATUS (OTHER THAN FANS AND PUMPS). XXXIV(1).

(This heading does not include CASTING METAL ; GLASS MANUFACTURE ;
MOULDING, ETC ; SPRAY PRODUCERS.)

butyrometers, *see* Density separators.

cream separators, *see* Density separators.

CENTRIFUGAL MACHINES, ETC.—*contd.*

Density separators. 64258, 65105, 65573, 66152.

Machines and separators other than density and separators and miscellaneous details. 63403, 65719.

Strainer separators. No case.

Ceramic bodies, attaching metallic layers by fusion or heating, *see* UNITING, ETC.

CHAINS AND SHACKLES. LXIV(2).

No case.

Chairs furniture, *see* Furniture.

Charges, explosive, *see* EXPLOSIVE, ETC.

CHEMICAL COMPOUNDS, INORGANIC. III.

(Steps in the production of inorganic compounds involving improvements in connection with condensing, cooling, crystallising, distilling, drying, filtering, grinding and crushing, mixing and packing are indexed in headings denoting such operations.)

Acids not containing oxygen. 65779.

Alkali manufacture. 64025, 65373.

alkali silicates, *see* Compounds chemical, etc.

alkaline silicate preparation, *see* Silicates, etc.

Ammonia and ammonium compounds and salts. 62729, 64338, 65220.

carbides, *see* Compounds, chemical, etc.

Carbonates (excepting alkali metal). 63949, 64893.

Compounds, chemical miscellaneous. 63094, 63326, 63327, 64644, 64871, 65779, 65894, 66050, 66257, 66287.

Cyanogen compounds and metallic derivatives. No case

fluorides, metallic, *see* Halides, etc.

Halides, metallic. 63327, 63583, 64238, 64338, 65659, 66109.

hydrogen peroxide, *see* Oxides, etc.

hydrogen sulphide, *see* Acids, etc.

Hypochlorites, metallic. 63650.

Nitrates, metallic. No case.

Nitrides, metallic. 64249.

Oxides and oxy-acids, non-metallic. 62782, 63057, 63514, 63571, 63736, 63904, 64309, 64040, 64963, 65073, 65428, 65638, 65724, 66115.

Oxides, hydrates and oxy-acids. 63057, 64893, 65020, 65022, 65037, 65335, 65384, 65844, 65877, 66073, 66176.

Phosphates, metallic. No case

Salts, metallic, miscellaneous. 63381, 63726, 64338, 65024, 65241, 65480, 66032, 66039, 66050.

silica tetrafluorides, *see* Compounds, chemical, etc.

Silicates, metallic. 63326, 63812, 65876.

Sulphates metallic. 64338.

Sulphides, metallic. 63812, 66041.

Sulphites, metallic. 65241.

CHEMICAL PROCESSES AND APPARATUS. IV(1).

(This heading includes only processes and apparatus for which no specific provision exists under the other key headings.)

Apparatus and processes depending upon apparatus for carrying catalytic reactions—

For reaction between gases and vapours. 64024, 65743.

Other than for reaction between gases and vapours. 63430, 65521.

Catalytic agents, preparation and treatment of. 62608, 62767, 62850, 62939, 63088, 63728, 63814, 63743, 64101, 64115, 64209, 64259, 64330, 64629, 64644, 65928, 65961, 66128.

Catalytic processes not depending upon any apparatus, for producing definite chemical compounds, *see* headings for the compounds.

Colloidal solutions, dispersions and emulsions other than bituminous emulsions. 63172, 63223, 63990, 64421, 65781.

Gas and vapours, treating with electric discharges. No case.

Liquid and gases separating. 64765.

Liquid-gaseous phase reaction, *see* Miscellaneous.

Miscellaneous processes and apparatus. 62728, 62824, 63827, 63828, 64046, 64156, 64247, 64260, 64388, 64670, 64876, 65373, 65656, 65743, 65835, 65844, 65924, 66018.

radiation processes not depending upon any apparatus for producing definite chemical compounds, *see* headings for the compounds.

Radiations, treating substances with for effecting chemical reactions and sterilisation, apparatus and processes depending upon such apparatus. 63706, 64260.

Separating mixtures of gases (excepting air and gases liquefying). 63079, 65921.

Testing and gas analysis. No case.

CHIMNEYS AND FUELS. XXVI(2). 65201.

Chip digesting apparatus for making pulp, *see* HEATING SYSTEMS, ETC.

Chlorine obtaining by electrolytic process, *see* ELECTROLYSIS, ETC.

Chlorines, *see* NON-METALLIC, ETC.

Chloroamphenicol antibiotics, *see* DISINFECTING, ETC.

Chlorobicycles heptadine, *see* CARBON COMPOUNDS, ETC.

Chokes, *see* CAPACITANCES, ETC.

Choolas, *see* STOVES, ETC.

Chucks, *see* METAL WORKING.

Cigarette making machines, and appliance, *see* CIGARS, ETC.

Cigarettes, *see* CIGARS, ETC.

Cigarettes testing machine, *see* CIGARS, ETC.

CIGARS, CIGARETTES AND SMOKER'S APPLIANCES AND TOBACCO MANUFACTURE. XVI.

cigarette boxes, *see* Match boxes, etc.

Cigarettes and cigarette making machines and appliances—

Apparatus and details, unclassified. 62879, 63192, 64380, 64045, 65058.

Cigarettes. 64380, 64945, 65232.

Continuous-rod type of machines. 62738, 62963, 63310, 63311, 64985.

Cutting and trimming mechanism. 63311.

Feeding tobacco (including opening and picking) and delivering cigarettes in orderly arrangement. 63202, 63311, 64985.

CIGARS, ETC.—contd.

- Cigars and cheroots and cigar making machines. 63202.
- continuous tobacco filler, *see* Cigarettes, etc. (Feeding, etc.)
- Smoker's accessories (ash trays, pipes, cigarette holders, pouches, smoking devices). No case.
- Packing cigarettes carbon for, *see* BOXES, ETC.
- tobacco filler for cigars forming of, *see* Cigars, etc.
- tobacco filler for cigarettes forming of, *see* Cigarette, etc. (Feeding, etc.)
- tobacco manipulating device for a continuous cigarette rod meshes, *see* Cigarettes, etc. (Continuous, etc.)
- Tobacco, manufacture of and tobacco substitutes and smoking mixtures. 62759, 63504, 65232, 65863.

CINEMATOGRAPHY. XXXVIII(1).

- (This heading does not include cinematographic picture films and lantern slides for which, see PHOTOGRAPHY.)*
- cinematographic films, guide means for, *see* Gate, etc.
- Colour cinematography. No case.
- Film winding and storing means. No case.
- Frames and casings (including arrangement of parts therein). No case.
- Gates and exposure-position film carriers and film centring. 62791.
- Intermittent-feed mechanism. No case.
- Miscellaneous. 65796.
- Shutters and automatic control devices for cut-off shutters, switches and signals (including films modified for use therewith). No case.
- Stereoscopic and relief effects-producing. No case.
- Cleaning fibres, *see* SPINNING, ETC.
- Cleaning textile machines, *see* SPINNING, ETC.
- Cleaning textile machineries by air jet. *see* AIR AND, ETC.
- Cleansing agents and compositions, *see* SOAPS, ETC.

CLOCKS AND WATCHES. XLI(4):

No case.

CLOSETS, BATHS AND LIKE SANITARY APPLIANCES. II(1).

- Baths. 65954.
- Closets, sanitary—
 - Constructional features, other than seats, etc. 62870, 63895, 64110, 64924.
 - Seats, seat guards, seat lids and seat backs. 66028.
- Commodos, bed pans and chamber pots. No case.
- Lavatory basins and sinks. No case.
- Miscellaneous appliances. No case.
- Urinals. No case.
- Water waste preventing cisterns, flushing and like—
 - Combined valve and siphon discharge and miscellaneous details. No case.
 - Siphon discharge only. No case.
 - Valve discharge only. No case.
- Clutch plates, *see* MECHANISM, ETC.

CLOSETS, ETC.—contd.

- Clutches for conveying rotary motions, *see* MECHANISM. (MISCELLANEOUS.)
- Coating articles, *see* PAINTS, ETC.
- Coating composition, *see* PAINTS, ETC.
- Coating continuous length of flexible material, *see* PROOFING, ETC.
- Coating metallic surfaces for preventing corrosion, *see* INCRUSTATION, ETC.
- Coating metals on metals otherwise than by electrodeposition, *see* TINNING, ETC.
- Coating metals with metals other than by electro-deposition, *see* TINNING, ETC.
- Coating with metals with methods otherwise than by electro-deposition, *see* TINNING, ETC.
- Coating yarns, threads ropes, cords and wires in indefinite lengths with liquid and plastic materials, *see* PROOFING, ETC.
- Cobalamins *see* CARBON COMPOUNDS, ETC.
- Coffee concentrate process, *see* TEA MANUFACTURE.
- Coiling flexible materials, *see* WEBS, ETC.

COINFREED APPARATUS. XLI(3).

- (Coin and check freed telephone systems, other than construction of coin and check operated freeing mechanism are indexed under TELEPHONES.)*
- Coin testing and fraudulent actuation preventing, apparatus for. No case.
- Delivery of articles (including delivery of coins for change giving), apparatus for. No case.
- Fluids and electricity delivery of, by clock work, meter or otherwise. No case.
- Franking and postmarking apparatus for. No case.
- Miscellaneous. No case.
- Telegraph and telephone apparatus. 65085.
- Coke, producing, *see* COKING, ETC.

COKING AND GAS PRODUCERS. XXXII(1).

- Coking processes, not depending upon any particular type of apparatus. 63112, 65398, 65417, 65443.
- Gas producers. 64513, 64894, 65208, 65934, 65935, 66065.
- Miscellaneous—
 - Controls for carbonisation plants. 63598.
 - Oscillatory, reciprocatory and rotary retorts. No case.
 - Ovens, coke (flue-heated). 63307, 63598, 66130, 66220, 66221, 66222.
 - Retorts, other than oscillatory, reciprocatory and rotating. No case.
- Cold pressure welding, *see* METAL WORKING.
- Colouring fatty, material, *see* FATS, ETC.
- Coloured cellulosic material, *see* CELLULOSE, ETC.
- Combustion turbine plants, *see* TURBINES, ETC.

COKING AND GAS, ETC.—*contd.*

- Commutators for electric machines, *see* DYNAMO ELECTRIC, ETC.
- Composite sheet materials, *see* PROOFING, ETC.
- Composite yarns, *see* SPINNING, ETC.
- Composition comprises of filler, vegetable oil and resin, etc., *see* PLASTIC COMPOSITION, ETC.
- Compressed fluid actuated operating mechanism for, impact tools, *see* HOT AIR, ETC.
- Compressor, *see* COOLING AND ICE, ETC.
- Compressor for gas turbines, *see* TURBINES, ETC.
- Compressors, bladed axial flow, *see* TURBINES, ETC.
- Compressors, lubricating system for, *see* LUBRICATING, ETC.
- Concrete mixers, *see* MIXING AND AGITATING, ETC.
- Conductive material for use in welding, *see* METAL WORKING.

CONDUCTORS AND INSULATORS, ELECTRIC. LVIII(3).

- a messenger supported aerial cable, *see* Laying, etc. (Suspending, etc.)
- a process for screening an electric conductor insulated with thermoplastic material, *see* Armouring, etc.
- Cables and conductors—
 - Armouring (including protective and preserving core insulation with non-metallic covering). 63189, 65618.
 - Arrangement and disposition or constituent parts. 62854, 63597, 64612.
 - Conductive materials and cores for. 62842.
 - Miscellaneous. 64612, 64737, 65149, 65150, 65219, 65952, 66106, 66151.
 - With auxiliary conductors. No case.
- Conduits and casings, specially designed for cables and conductors. No case.
- Insulating materials. 63635, 63838, 64568, 65010, 65092, 65684, 65804, 65937, 66076, 66077, 66078.
- Laying, fixing, suspending and supporting cables and conductors—
 - Insulators (including means for securing insulators together or to support). 64811, 65010, 65290.
 - Laying, erecting and repairing. 62975.
 - Miscellaneous. 63580, 64419.
 - Suspending and supporting. 63876, 63951, 64613.
- over head conductors and cables supporting means for, *see* Laying, etc. (Suspending, etc.)
- process and apparatus for manufacturing cables, *see* Cables, etc. (Miscellaneous.)
- tensioning cables, *see* Laying, etc.—(Miscellaneous.)
- insulating a metal strip, *see* Cables, etc. (Arrangement, etc.)
- Conductors, arrangement and adaptation for electric supply, *see* ELECTRIC SUPPLY, ETC.
- Conductors, electric, arrangement and antilation for distributing electric power, *see* ELECTRIC SUPPLY, ETC.
- Confectionary making, *see* FOOD, ETC.
- Contacts, electric switch, *see* ELECTRIC SWITCHES, ETC.
- Containers for fluids under pressure, *see* AIR AND GASES.

CONDUCTORS, ETC.—contd.

- Containers for medicine cosmetics or like, *see* STOPPERING, ETC.
- Containers or cases, *see* BOXES, ETC.
- Containers or casks and barrels, *see* HOLLOW-WARE.
- Containers with multichamber storage of medicine and like, *see* DISINFECT-
ING, ETC.
- Control equipments for electric motor traction devices, *see* MOTOR CONTROL,
ETC.
- Control mechanism in a tractor, *see* AGRICULTURAL, ETC.
- Control mechanism in a tractor, *see* AGRICULTURAL, ETC.
- Control signals for automatic machine tools, *see* ELECTRIC SIGNALLING,
ETC.
- Controllers for electric motor, *see* MOTOR CONTROL, ETC.
- Controlling electric motors, *see* MOTOR CONTROL, ETC.
- Controlling the flow of fluids quick change line fluid for, *see* VALVES, ETC.
- Conveyor comprising carrier means, *see* LIFTING, LOADING, ETC.
- Conveyors, *see* LIFTING, ETC.
- Conveyors, endless, *see* LIFTING, ETC.
- Conveyors systems for load carrying trolleys, *see* LIFTING, LOADING, ETC.

COOKING, BAKING AND KITCHEN APPLIANCES. XV(1).

(This heading comprises only the apparatus and utensils indicated by the sub-heading. Sauce pans, pails and like hollow-ware are indexed under HOLLOW-WARE.)

Bread, biscuit, cakes and pastry, making. No case.

cookers burners for, *see* BURNERS, ETC.

Cooking apparatus, field, camp and like. 65094, 65387.

food carriers, *see* Tiffin, etc.

Fruits, nuts, vegetables, meat, fish and game dressing. No case.

Graters, crumblers, scrapers (including apparatus for mincing and cutting slices). No case.

Miscellaneous. No case.

Oven accessories and other baking apparatus. No case.

Roasting jacks, and spits grilling and toasting apparatus. 64303, 66279.

Steam, hot water and like cooking apparatus. 65062.

thermally insulated food container, *see* COOLING, ETC.

Tiffin and like carriers. 65152, 65272, 66278.

COOLING AND ICE-MAKING. VII(1).

(This heading includes only general methods and apparatus for the production of cold and for cooling gases and liquids. Except in the case of items mentioned under sub-heading "Miscellaneous", cooling processes and apparatus applicable for particular purposes are indexed under the headings for such purposes. Thus methods of cooling Dynamoelectric machinery will be indexed under DYNAMO ELECTRIC, ETC.)

Cold and heat retaining vessels (containers of small capacity without cooling or heating means suitable for transporting or storing). 63395, 63708, 64984, 64991, 66097.

Cooling gases and liquids (excepting heat interchanging apparatus and ice-making). 63281, 65164, 66208, 66260.

COOLING, ETC.—contd.

Ice-making and congelation of liquids (excepting processes and apparatus for the production of cold in general to be used subsequently for ice-making). No case.

means for deforsting refrigerator tubes, *see* Refrigerating, etc. (Systems, etc.)

Miscellaneous. 63724, 64876.

Refrigerating systems for the production of cold—

Absorption systems. 63061, 64439, 65113.

Compression systems. 65223, 66168.

Systems other than absorption and compression. 63522.

Refrigerators, cooling chambers and cold storage rooms, other than systems for production of cold. 64131, 65886.

thermally insulated food container, *see* Cold and heat, etc.

Copolymerisation products, *see* CARBON COMPOUNDS, ETC.

Copolymers of 'd-olefines, vulcanisation of, *see* CARBON COMPOUNDS, ETC.

Corrosion, preventing and removing, *see* INCRUSTATION, ETC.

Cots, folding, *see* FURNITURE.

Cotton and rayon spinning control system for product silver counts, *see* SPINNING, ETC.

Coumarines, *see* CARBON COMPOUNDS, ETC.

Coupler, railway, *see* RAILWAY AND TRAMWAY VEHICLES, ETC.

Coupling device for railway vehicles, *see* RAILWAY, ETC.

Coupling electric motors with driven shafts by means of hydraulic control devices, *see* HYDRAULIC PRESSES, ETC.

Couplings, electric, *see* ELECTRIC COUPLINGS, ETC.

Couplings for plastic pipes, *see* PIPE JOINTS, ETC.

Covering walls and ceiling, *see* BUILDINGS, ETC.

Cracking hydrocarbon, *see* DISTILLING, ETC.

Cradle for cable or drum, *see* PIPES AND TUBES, ETC.

Crimping fibres, *see* SPINNING, ETC.

Crossing of ropes in a conveyor, *see* LIFTING, LOADING, ETC.

Crystal diodes, *see* WIRELESS, ETC.

Crystal devices, *see* WIRELESS, ETC.

Cultivation appliances, *see* AGRICULTURAL, ETC.

Cultivators, *see* AGRICULTURAL, ETC.

Current conductors, electric, *see* CONDUCTORS, ETC.

Curvature of surfaces measuring, *see* GAUGES, ETC.

CUTLERY. LXVI(2).

Forks. No case.

Knives. No case.

Miscellaneous. No case.

Razors and shavers. 62758, 64479, 64807.

Scissors and hand shears. No case.

Cutting metals, *see* METAL WORKING.

**CUTTING, PUNCHING AND PERFORATING PAPER, FABRICS AND LIKE.
XXIV(1).**

Cutting and severing machines. 64955.

Punching and perforating machines. 65583.

Cutting tools, *see* METAL WORKING.

Cyanuric acid, *see* CARBON COMPOUNDS, ETC.

Cycle locks, *see* LOCKS, ETC.

CYCLES AND LIKE VEHICLES. LII(5).

Accessories for (awnings, windshields, stands and luggage carriers and like attachments). 63277, 63370, 64870.

Brake operating mechanism. No case.

Driving mechanism (including human power driving mechanism for apparatus other than vehicles). 64065.

gear cases for, *see* Accessories, etc.

gear hub, *see* Driving mechanism.

load carrier for cycles, *see* Accessories, etc.

Steering mechanism. No case.

Structural design of (other than brakes, steering and driving mechanism). 63948.

mud dress and like guards for wheels, *see* Accessories, etc.

holders for wheels when not in use, *see* Accessories, etc.

Cyclopentanophenanthrene derivatives, *see* CARBON COMPOUNDS, ETC.

Cylindrical concrete bodies, *see* MOULDING PLASTIC, ETC.

D

Debarking logs, device for, *see* WOOD CUTTING, ETC.

Decking for flooring, *see* BUILDING, ETC.

DECOCTIONS EXTRACTS, AND INFUSIONS, MAKING. XIV(3). 63266.

Demodulating circuits wireless, *see* WIRELESS, ETC.

Dentifrices, *see* TOILET, ETC.

Desulfurization of iron, *see* IRON AND STEEL, ETC.

Desulphurization of slags, *see* CEMENT, ETC.

Detergents, *see* SOAPS, ETC.

Devans, couches, beds, etc., *see* FURNITURE.

Devices for cutting metals, *see* METAL WORKING.

Diaphragm pumps, *see* PUMPS, ETC.

Digesters, *see* HEATING SYSTEMS, ETC.

Dihydroxy hexenes, *see* CARBON COMPOUNDS, ETC.

Dioxazine dyes, *see* CARBON COMPOUNDS, ETC.

Diphenylamines, *see* CARBON COMPOUNDS, ETC.

Dipiperidyl alkanes, *see* CARBON COMPOUNDS, ETC.

Diazodyestuffs, *see* CARBON COMPOUNDS, ETC.

Discharge lamps, electric, *see* VACUUM, ETC.

Discharge tubes, electric, *see* VACUUM, ETC.

**DISINFECTING AND DEODORIZING, INCLUDING MEDICAL AND LIKE
PREPARATIONS. XIX(1).**

(This heading does not include washing bottles, sewage treatment and water purifying which are indexed in separate headings.)

Deodorants, fumigants, disinfectants and antiseptics. 65137, 65474.

DISINFECTING AND DEODORIZING, ETC.—contd.

Disinfecting—

Air and gases, disinfecting. 65377.

Chambers and ovens for disinfecting by means of gases and vapours. 65035.

extracts, decoctions and infusion making, *see* DECOCTIONS, ETC.

Miscellaneous. 63484.

Fumigating and vapourising for sanitary and like purposes. 65035.

gelatine particulates, medicinal, *see* Medicines, etc. (Internal, etc.)

Insecticides and vermin destroying compositions—

Containing plant extracts. 64311.

Other than containing plant extracts. 62894, 62969, 62983, 63243, 63431, 63432, 63470, 63569, 63638, 63640, 63666, 64006, 64091, 64302, 64398, 64656, 64713, 64791, 64792, 64817, 64848, 64948, 64965, 64966, 65034, 65212, 65213, 65214, 65370, 65444, 65490, 65572, 65590, 65601, 65653, 66043, 66131, 66169, 66232, 66282.

insulin preparation from animal source, *see* Medicines, etc. (Harmones, etc.)insulin suspensions, *see* Medicines, etc. (Hormons, etc.)medical carrier, *see* Miscellaneous.

Medicines and other pharmaceutical preparations (excepting drugs of distinct chemical compositions)—

Anti-toxins, toxins, vaccines and immunising and like serums. 63481, 63802, 63884, 65731, 65980.

External remedies (other than antitoxins, toxins, vaccines and serums).

62857, 62956, 62957, 62958, 63030, 62050, 53160, 63180, 63191, 63315, 63417, 63461, 63480, 63552, 63572, 63683, 63700, 63720, 63760, 63772, 63824, 63885, 62913, 63929, 63952, 64038, 64182, 64229, 64300, 64346, 64347, 64453, 64519, 64589, 64590, 64625, 64657, 64688, 64705, 64776, 64780, 64825, 64835, 64884, 64889, 64988, 65236, 65292, 65444, 65557, 65810, 65826, 65958, 66043, 66113, 66114, 66163, 66199.

Hormones and animal gland extracts. 63373, 64223, 64623, 64739, 65401, 65677, 66292.

Internal remedies (other than hormones, and animal gland extracts. 62734,

62763, 62780, 62857, 62858, 62859, 62894, 62897, 62900, 62956, 62957, 62958, 62990, 63013, 63030, 63044, 63050, 63060, 63069, 63070, 63081, 63084, 63135, 63160, 63180, 63182, 63183, 63187, 63191, 63208, 63315, 63328, 63366, 63368, 63373, 63386, 63417, 63455, 63458, 63461, 63480, 63482, 63489, 63544, 63552, 63572, 63664, 63683, 63697, 63700, 63713, 63720, 63134, 63760, 63772, 63809, 63834, 63874, 63883, 63885, 63909, 63913, 63915, 63929, 63952, 63980, 63986, 64007, 64038, 64048, 64113, 64182, 64198, 74229, 64245, 64250, 64270, 64304, 64346, 64347, 64362, 64386, 64431, 64453, 64463, 64537, 64589, 64590, 64593, 64595, 64614, 64615, 64625, 64651, 64657, 64684, 64688, 64692, 64694, 64705, 64717, 64776, 64780, 64793, 64799, 64820, 64824, 64825, 64835, 64881, 64889, 64897, 64913, 64964, 64988, 65001, 65005, 65063, 65972, 65112, 65138, 65141, 65143, 65243, 65292, 65414, 65516, 65551, 65557, 65591, 65625, 65691, 65726, 65729, 65810, 65826, 65858, 65871, 65936, 65957, 65958, 66043, 66113, 66114, 66135, 66146, 66147, 66163, 66199, 66274.

Miscellaneous. 63391, 63866, 64836, 64853, 65501, 66143, 66170.

vitamin, *see* CARBON COMPOUNDS, ETC.x-ray contrast medium, *see* Miscellaneous.

DISINFECTING, ETC.—contd.

Dispenser caps for bottles or like liquid containers, *see* STOPPERING, ETC.
 Dispensing device, *see* STOPPERING, ETC.
 Dispensing devices for containers, *see* STOPPERING, ETC.
 Dispensing pesticides or aerosols, *see* DISINFECTING, ETC.
 Displaying apparatus, *see* ADVERTISING, ETC.
 Displaying board, *see* ADVERTISING, ETC.
 Disseminating volatile pesticide material pack for, *see* DISINFECTING, ETC.
 Distempers, *see* PAINTS, ETC.

DISTILLING AND EVAPORATING LIQUIDS. V.

(This heading does not include liquefying and evaporating air and gases, see AIR AND GASES; DRYING SYSTEMS; GAS MANUFACTURE; carburizing, see INTERNAL COMBUSTION ENGINES; distilling metals, see METALS, EXTRACTING; and refrigerating systems, see COOLING.)

Condensers, condenser systems, column stills and rectifiers, construction of (plants and processes, other than for cracking and distilling hydrocarbons). 63029, 63207, 65189.
 Cracking hydrocarbons. 62949, 63207, 63364, 63892, 64139, 64766, 64894, 65144.
 Crystallising other than by evaporating. 66051.
 Evaporators and evaporating systems (plants and processes, other than for cracking and distilling hydrocarbons). 66153, 66155, 66174.
 Hydrocarbons, distilling without cracking (including pitch, resin oils and turpentine). No case.
 Hydrogenation, destructive, of coal, oils and like carbonaceous materials, obtaining liquids by. 63611, 64139, 64424, 65144, 65891, 65909, 66095.
 Plants and processes not otherwise provided for. 63128.
 Distribution boxes, electric, *see* ELECTRIC COUPLINGS, ETC.
 Distributor valve for railway vacuum brake, *see* BRAKES, ETC.
 Diquaternary compounds, *see* CARBON COMPOUNDS, ETC.
 Dobbies, *see* LOOMS.
 Doffing mechanisms, control system for, *see* SPINNING, ETC.

**DOOR AND GATE OPERATING APPLIANCES, HINGES AND PIVOTS.
 LXIV(3).**

(This heading includes means for opening, closing and controlling the operation of doors, gates, barriers of buildings, ships, vehicles and road and railway tracks.)

Door, window and like hinged articles, holders, stops and stays for (means for holding in open position independently of opening and closing means). 64381.
 Hinges and pivots. 63064.
 Holders for sliding doors, windows and like (means apart from operating means). 64381.
 Means for opening, closing and controlling operation of door, gate, and barriers buildings and vehicles. 65091.
 window opening and closing apparatus, *see* Means, etc.

DOORS AND WINDOWS AND THEIR ACCESSORIES. XXVI(3).

(This heading includes doors and windows for buildings, vehicles and like structures only. For coke oven doors, see COKING, ETC.; for furnace doors, see FURNACES.)

Accessories—

Draught and dust excluders. 65007, 65008.

Window and like guards. No case.

window opening and closing apparatus, *see* DOOR AND GATE, ETC.

Door and door frames. 64131, 64246, 65489.

doors for coke ovens, *see* COKING, ETC.

Window shutters. 63894, 65376, 65441.

Windows, fan lights and roof lights (including miscellaneous transparent sheet materials but not window shutters). No case.

Drafting apparatus, textile, *see* SPINNING, ETC.

DRAINS AND SEWERS. II(2).

Conduits, culverts and sewers. No case.

Drainage and sewerage. No case.

DRESS AND DRESS FASTENINGS. LXVI(3).

anticurl device for garments, *see* Miscellaneous.

Belts, equipments and other straps for personal wear, braces and suspenders. 62835.

Fastenings, dress (other than belts, braces and suspenders). 62815, 62835, 62912, 63592, 64177, 64430, 64639.

Hats and head coverings. No case.

Miscellaneous—

Anticurl device for garments. 63137.

Gloves. 62813.

Tubular knitted garmets. 63250.

Watch bracelets. 64794.

snap fastenings or stitch buttons, *see* Fastenings, etc.

Trouser and garment protectors, presses and like. No case.

Wearing apparel including tailoring and dress making. 55669, 65883.

buttons and button-fasteners, *see* Fastenings, dress, etc.

gloves and like hand coverings, *see* Miscellaneous.

neck-ties, bows, *see* Wearing apparel, etc.

pleating, corrugating wearing apparel, *see* Miscellaneous.

shrouds, *see* Miscellaneous.

sleevelinks, *see* Fastenings, dress, etc.

studs, *see* Fastenings, dress, etc.

Drilling or boring earth and rock, *see* MINING, ETC.

Drawers, cabinets for, *see* FURNITURE.

Dry cells, electric, *see* BATTERISES, ETC.

Drying compositions, *see* PAINTS, ETC.

Drying grass or the like, *see* DRYING, ETC.

DRYING SYSTEMS AND APPARATUS (EXCEPTING CENTRIFUGAL MACHINES ; DISTILLING, ETC. ; STEAM SUPERHEATERS ; HEATING SYSTEMS). VIII.

(Removing water from liquid-chemicals by treatment with chemical elements and compounds is indexed under only the headings for chemicals treated.)

Air and gases used for drying, regulating flow and condition of. 64630, 66134.

Apparatus in which articles and materials are dried at rest or locally agitated. 64837, 64838, 64839, 66134.

by moving progressively material through fluidized bed, *see* Systems, etc.

Charging, feeding and discharging devices. No case.

Desiccants and absorbents. No case.

Drying air and gases. No case.

Endless band, moving tray and like travelling apparatus. 63573.

granulating by spray drying, *see* Miscellaneous.

Heating apparatus, arrangement of. 64630.

Miscellaneous—

Granulating by spray drying. 64333.

High frequency drying. 63190.

Rotating, shaking, oscillating and otherwise moving containers or drums. No case.

Supports for articles and materials (excepting endless bands), construction of. No case.

Systems in which materials are dried by progressive movement other than endless band and rotating containers. 63114, 64530.

DYEING, BLEACHING, WASHING AND LIKE TREATMENT OF TEXTILES AND TEXTILE MATERIALS WITH LIQUIDS AND GASES. XXII(1).

(Apparatus for applying liquids by single passage of material under a single roller or for applying size and other viscous liquids are indexed under PROOFING.)

Bleaching and washing textiles, process and materials for (other than washing, laundry and domestic)—

Other than by the use of oxidising and reducing agents. 64827.

Oxidising agents, by the use of. 62798, 63780, 64521, 64976, 65306.

Reducing agents, by the use of. No case.

bleaching with hydrogen peroxide solution, *see* Bleaching, etc. (Oxidising, etc.)

Dyeing, bleaching and washing otherwise treating textiles with liquids and gases, apparatus for (other than for washing domestic and laundry). 63533, 63875, 63899, 64673, 65719.

paper pulp bleaching by electrolysis in a solution of chloride, *see* Bleaching, etc. (other than, etc.).

pigment dyeing compositions, *see* Processes, etc. (Dyeing by, etc.)

Processes and materials for dyeing textiles and other fibrous materials—

Dyeing by processes other than forming on the material, mordant and vat dyeing. 63005, 63018, 63221, 63608, 63629, 63801, 63819, 64118, 64183, 64312, 64493, 64663, 64697, 64933, 65319, 65416, 6556, 65478, 65479, 65502, 65503, 65654, 65657, 65675, 65906, 66000, 66246.

Dyes, forming and developing on the material (other than stable preparations of diazo compounds). 62992, 63668, 63740, 64763, 64831, 65503, 66201.

DYEING, BLEACHING, ETC.—contd.

Processes and materials, etc.—*contd.*

Mordant dyes, dyeing with. 65584.

Vat and sulphuretted dyes, dyeing with. 63142, 63556, 64256, 64604, 65278, 66198.

scouring fabrics, *see* Bleaching, etc.

Treating textiles with liquids and gases, other than for bleaching, dyeing and washing proofing. 62114, 62737, 62771, 62893, 62896, 62955, 63004, 63336, 63344, 63623, 63821, 63881, 63882, 64052, 64283, 64392, 64421, 64719, 65282, 65314, 65329, 65409, 65422, 65442, 65477, 65564, 66074, 66092, 66093.

washing machines, *see* Washing, etc.

Washing, mangling, ironing and starching clothes, domestic and laundry. 63279, 63516, 65206.

Dyestuffs, organic, *see* CARBON COMPOUNDS, ETC.

Dyestuffs phthalocyanine, *see* CARBON COMPOUNDS, ETC.

DYNAMO-ELECTRIC MOTORS AND GENERATORS. LVII(1).

Alternating current machines, general design of—

Commutator machines. 65327, 66187.

Induction machines. 64512.

Machines other than commutator and induction. 64900, 64905.

Armatures, cores, laminations and windings, details of. 62882, 62886, 62903, 63597, 63841, 63916, 63917, 63918, 63919, 63920, 64088, 64778, 64807, 65172, 65963, 65965, 65966, 65970.

Brushes, commutators and collectors, details of. 64441, 64442, 64664, 65662, 65732.

Casings, frames, and supports, details of. 64284, 65172, 65963, 65966, 65970.
commutators, *see* Brushes, etc.

Cooling and ventilating systems for dynamo-electric machines. 62883, 63109, 63910, 64142, 64778.

Direct current machines, general design of. 65692.

Driving, arrangements of. No case.

electric shavers vibratory motors for, *see* CUTLERY.

Electromagnets and magnets permanent, construction of. 63559, 63597, 63851, 63993, 64034, 64088, 65070, 65300, 65850, 65950, 65951.

Miscellaneous. 63025, 64285, 64807, 65172.

field-windings of dynamo-electric machines, *see* Armature, etc.

field windings of electromagnet, *see* Electromagnets, etc.

mounting condensers in stators of A.C. fans, *see* Armatures, etc.

Rotary converter and transformer systems. No case.

rotors for dynamo-electric machines, *see* Armature, etc.

stator windings cooling arrangement, *see* Cooling, etc.

Dynamometers, *see* GAUGES, ETC.

E

Earth removing or excavating machine, *see* EXCAVATING, ETC.

Ejection seats for aircrafts, *see* AERONAUTICS.

Elastomeric resinous composition, *see* PLASTIC, ETC.

Elastomers, *see* CARBON COMPOUNDS, ETC.

Elastomers polymeric, *see* CARBON COMPOUNDS, ETC.

Elastomers vulcanised, *see* INDIA RUBBER, ETC.

Electric alarm systems, *see* ELECTRIC CIGNALLING, ETC.

Electric bulbs, *see* ELECTRIC LAMPS, ETC.

Electric Cable joints, *see* ELECTRIC COUPLINGS, ETC.

Electric cartridge fuse links, *see* ELECTRIC COUPLINGS, ETC.

Electric cells, *see* BATTERIES, ETC.

Electric conductor, *see* CONDUCTORS, ETC.

ELECTRIC COUPLINGS AND CUT-OUTS OTHER THAN ELECTRO-MAGNETIC AND THERMAL. LVIII(4).

cable joints permanent, *see* Electric, etc. Couplings, etc.

cartridge fuse links for electric, *see* Cut-out, etc.

Cut-outs (other than electromagnetic and thermal). 63117, 63123, 63475, 65672.

distribution boxes, *see* Electric, etc. (junction, etc.).

Electric Couplings—

Couplings other than plug and socket and like and junction boxes, etc. (including rod and wire couplings). 62753, 63122, 63129, 63322, 63524, 63815, 63851, 64341, 65684, 65880, 65938, 65952, 66063, 66066.

Junction, inspection, test and distribution boxes, ceiling roses. 62995, 63285, 63849, 65451.

Plug and socket and like two-part readily removable couplings. 62722, 62748, 63475, 63560.

electric fuses, *see* ELECTRIC COUPLINGS, ETC.

insulating panels having printed wiring thereon, *see* Electric, etc. (Couplings, etc.).

securing components of electrical apparatus to mounting plates thereof, *see* Electric, etc. (Couplings, etc.).

ELECTRIC CURRENTS CONVERTING AND TRANSFORMING OTHER THAN BY ROTARY CONVERTERS AND ROTARY TRANSFORMERS. LVII (2).

an on-load tap changing system, *see* Transformers—(Regulating, etc.).

Converting alternating and direct—

Arc, spark-gap and other discharge producing apparatus (including vapour and vacuum apparatus), by arrangement of. 64720.

By varying resistance, inductance and capacity (including arrangements of electrolytic and contact rectifiers). 63150, 63151, 66148.

Commutator switching arrangements. No case.

Systems of conversion other than Arc, etc.; By varying resistance, etc.; and Commutator, etc. No case.

rectifiers for rectifying alternating current by metal vapour and the like, *see* Converting, etc. Arc, etc.

tap-changing arrangements for transformers, *see* Transformers—(Regulating, etc.).

Transformers—

Bases, cases and cooling and ventilation arrangements. No case.

Cores, armatures and winding. 63515, 65881.

ELECTRIC CURRENTS, ETC.—contd.

Transformers—*contd.*

Regulating and constructional arrangements other than Cores, etc.; Bases, etc., 63475, 63722, 63833, 65228, 65849.

Electric discharge tubes, *see* VACUUM, ETC.

Electric furnaces, *see* HEATING BY, ETC.

Electric heating elements, *see* HEATING BY ELECTRICITY.

Electric insulation, *see* CONDUCTORS, ETC.

ELECTRIC LAMPS, INCANDESCENT AND ARC. LXIII(1).

(*This heading does not include shades, reflectors and globes for which see LAMP CHIMNEYS.*)

Arc lamps. No case.

Battery lamps. No case.

Dynamo lamps. No case.

Incandescent lamps, construction of—

Caps for bulbs (including connecting to bulbs). 62867, 62869.

Filaments, supports for (other than leading-in-wires). No case

Forms and materials of bulbs and gases used. No case.

Holders. 62722.

Leading-in-wires. No case.

Materials for filaments, their form, shape and arrangement of. 65630.

Miscellaneous. No case.

Mounting parts in and closing bulbs (other than attaching filaments to leading-in-wires). 62867, 62869.

Multiple filament lamps and variable connections. 63273.

Reflectors and screens within bulbs. No case.

Renewing and repairing. No case.

manufacturing or assembling lamp parts, *see* Incandescent, etc. (Mounting etc.).

multiple filament bulbs for vehicle lamps, *see* Incandescent, etc. (Multiple etc.).

Electric motors, stators for, *see* DYNAMO ELECTRIC, ETC.

Electric record players or gramophones, *see* PHONOGRAPHS, ETC.

ELECTRIC SIGNALLING SYSTEMS AND APPARATUS, OTHER THAN TELEGRAPHS AND TELEPHONES. LI(2).

alarm systems, electric, *see* Annunciators, etc.

Annunciators, or indicators and alarm, (fire, police and like systems). 63124, 65257.

control signal for automatic machine tools, *see* Selective, etc.

electric signalling systems for railways, *see* RAILWAY SIGNALLING, ETC.

ferrite matrix storage devices, electric, *see* Selective, etc.

Non-selective signalling systems. No case.

railways, remote control systems for, *see* RAILWAY SIGNALS, ETC.

Selective signalling and distant control systems (comprising means for transmitting or receiving a choice of signals or effects). 62821, 62822, 63041, 63072, 63231, 63295, 63356, 63614, 63671, 63755, 63859, 64034, 64076, 64228, 64429, 64645, 64995, 65032, 65068, 65130, 65257, 65539, 65623, 65900, 66117.

**ELECTRIC SUPPLY AND TRANSMISSION SYSTEMS AND APPARATUS.
LVII(3).**

balancing supply system voltages, *see* Systems, etc.

boosting, *see* Systems, etc.

Charging and controlling storage batteries. 63844, 65317.

Conductors, arrangement and utilisation of for transmission and distribution and for installation wiring. 63285, 63524.

dynamos and motors combined for transmitting power, *see* Electromechanical, etc.

equalisation of potential and current, *see* Systems, etc.

electric surge diverters, *see* Protective, etc.

Electromechanical and electric systems for transmitting mechanical power. 63436, 64027.

operating circuits for discharge lamps, *see* Systems for, etc. (Systems for vacuum, etc.).

Protective arrangements (other than those with automatic circuit breakers or other safety switches). 63871, 64135, 64342, 65120.

single electrode furnaces operating from three phase supply systems for, *see* Systems, etc.

Systems for supplying and controlling consuming devices (other than motive power plant and storage batteries)—

Automatic systems of regulation. 62841, 62843, 63724, 63810, 64027, 64465, 64466, 64960, 65394, 65849.

Non-automatic systems of regulation. 63833, 64608, 65074.

Systems for vacuum discharge apparatus. 63149, 63201, 64928, 65394, 65864, 65927, 66203.

systems of wiring, *see* Conductors.

Electric surge diverters, *see* ELECTRIC, ETC.

**ELECTRIC SWITCHES AND ELECTROMAGNETIC AND THERMAL CUT-OUTS (EXCEPTING SELECTOR SWITCHES FOR TELEPHONES).
LIX(1).**

Automatic circuit breakers and other switches tripped or released by electrical means, re-set by hand or by power, and retained set against the action of springs or gravity. 64053, 64474.

bimetallic switches, *see* Thermal, etc.

Cathode switching devices, *see* Miscellaneous.

Cut-outs or protective systems with safety switches and cut-outs controlled by variations in the conditions of the circuit. 64342, 64557.

Electrolytic interrupters. 65012, 65860.

Electromagnetic and magnetic switches (other than automatic circuit breakers tripped, etc., and cut-outs or protective systems with safety switches, etc.). 63121, 64412, 65012, 65860.

Make and break switches, mechanical, adapted for continuous operation. 65579, 65580.

Mechanical switches, inert without spring (including switches operated by tilting, by vibration or by gravity). 63163, 65579, 65580.

Mechanical switches, retained set, against quick action spring or gravity return, by latches, overset parts and friction grip and other mechanical devices. 62846, 63406.

Mercury and other conducting liquid switches. No case.

ELECTRIC SWITCHES AND, ETC.—contd.

- Miscellaneous. 63074, 63674, 65426.
- Momentary contact switches (mechanical switches which in single stroke of operating member made and break a circuit once or a definite number of times). 65239,
- Oil-break, air-break and other high temperature and heavy current switches. 63406.
- Press-button and other mechanical switches which retract upon removal of operating force. No case.
- Snap-action switches (springs, during a single "on" and "off" operation, are first strained and then relaxed to assist or to produce switching movement). 62901, 65408.
- Spark-preventing and arc-rupturing devices. 64510.
- Switch bases, covers, cases and contact members, constructions of. 65239.
- Switch-boards and equivalent switch-gear structures. No case.
- telegraphic, telephonic and like contact making relays operated by and controlling very light current, *see* Electromagnetic, etc.
- Thermal switches, cut-outs and interrupters. 63201, 65629.
- thermally released overload switch, *see* Automatic, etc.
- Electrical cables, *see* CONDUCTORS, ETC.
- Electrical connection of a single phase electrode furnaces, *see* HEATING, BY ELECTRICITY.
- Electrical regulation system, *see* ELECTRIC SUPPLY, ETC.
- Electro-dialysis, *see* ELECTROLYSIS, ETC.
- Electro dialytic cells, *see* ELECTROLYSIS, ETC.
- Electrode for electrolytic cells, *see* ELECTROLYSIS, ETC.
- Electrode positioning in furnace and the like, *see* HEATING, ETC.
- Electrodes for accumulators, *see* BATTERIES, ETC.
- Electrodes for electrolysis, *see* ELECTROLYSIS, ETC.
- Electrolatic separators, *see* MAGNETIC, ETC.

ELECTROLYSIS AND ELECTRO-DEPOSITION. LVIII(5).

- anodes for electrolytic cells, *see* Diaphragms, etc.
- Cells receptacles and apparatus, other than diaphragms and electrodes. 62731, 62794, 62842, 63718, 66064, 66144, 66188.
- Diaphragm and electrodes, forms, construction and mounting of. 62731, 62868, 63634, 64211, 64447, 64647, 65567, 66195.
- electrodialysis apparatus, *see* Cells, etc.
- Processes—
- Electro-osmotic. No case.
- Fused electrolytes, metals, obtaining from. 62731, 62828, 62959, 62960, 64340, 66109, 66188.
- Liquids, treating for purifying and like purposes. 64322.
- Metals and alloys, obtaining and depositing from aqueous electrolytes. 63904, 65556, 65588, 65646.
- Miscellaneous. 63650, 64045, 66148.
- Non-metallic substances, obtaining depositing. 64327.
- Organic solutions treating (other than liquids treating for purifying). No case.

ELECTROLYSIS, ETC.—contd.

- Electrolytic capacitors, *see* CAPACITANCES, ETC.
- Electrolytic capacitor or condensers, *see* CAPACITANCES, ETC.
- Electrolytic cells, *see* ELECTROLYSIS, ETC.
- Electromagnetic relays, control making, *see* ELECTRIC SWITCHES, ETC.
- Electromagnetic waveguides, *see* WIRELESS, ETC.
- Electron discharge tubes, *see* VACUUM, ETC.
- Electronic computers, *see* CALCULATING, ETC.
- Emulsions, other than bituminous, *see* CHEMICAL PROCESS, ETC.
- Enamelling, *see* GLASS, ETC.
- Enamelly, vitreous, *see* GLASS, ETC.
- End fitting for plastic tube, *see* PIPE-JOINTS, ETC.
- Endless conveyors, *see* LIFTING, ETC.
- Epoxy compounds derivatives, *see* CARBON COMPOUNDS, ETC.
- Esters, *see* CARBON COMPOUNDS, ETC.
- Etching and engraving, *see* PRINTING.
- Ethylene and polymers, *see* CARBON COMPOUNDS, ETC.

EXCAVATING. XXVIII(1).

(Excepting AGRICULTURAL implements, Boring earth and rock.)

- agricultural implements with grader blades, *see* AGRICULTURAL, ETC.
- Blasting. No case.
- coal cutting machine, *see* Miscellaneous.
- Digging, picking, channelling and slitting apparatus (including rotary scrapers), other than agricultural implements. 63877, 64404, 64652.
- Discharging soil. No case.
- Endless chain machines. 63673.
- Grab and scoop-arm machines. No case.
- Hydraulic mining and scouring apparatus (including methods in which water breaks away the ground; jet apparatus and sinking caissons, piles, and shafts by jetting). No case.
- Miscellaneous—
 - Coat cutting machines. 64652.
 - Pick boxes for cutter chain of mining machine. 63092.
 - Pick boxes for cutter chain of mining machine, *see* Miscellaneous.
 - under cutters or cutting machines for cutting coal and other mineral, *see* Digging, etc.

EXPLOSIVES AND PYROTECHNICS. XXXIX(3).

- Explosive materials and compositions, containing liquid air or liquid oxygen. No case.
- Explosive materials and compositions, other than containing liquid air or liquid oxygen. 63781, 65383, 65744, 65745, 65746.
- Miscellaneous. No case.
- Pyrotechnic apparatus and pyrophoric and flash light compositions and ribbons. No case.
- Extracting and obtaining fatty oils, by pressure or solvents, *see* FATS, ETC.

EXPLOSIVES AND ETC.—contd.

Extraction of rice bran oil with a solvent under controlled pressure, *see* FATS, ETC.

Extruding metal, *see* METAL WORKING.

Extruding metal, presses for, *see* METAL WORKING.

Extruding plastic materials, *see* MOULDING, ETC.

F

Fabric printing machine, *see* PRINTING, ETC.

Fabric, resisting creases in, *see* DYEING, ETC.

FABRICS, FINISHING AND TESTING. XXII(2).

62737, 62920, 63023, 63066, 63623, 63709, 64186, 64283, 64530, 64767, 64774, 64855, 65513, 65954, 66141.

Fabrics unwoven, *see* WEBS AND SHEETS, ETC.

FABRICS, WOVEN. XXI(1).

63612, 63829, 65454.

FARES AND ADMISSION FEES, CHECKING AND SPEED INDICATORS. XLI(5).

66010.

Fascimile apparatus, *see* TELEGRAPHS, ETC.

Fastiver for dresses, *see* DRESS, ETC.

FASTENINGS,—MISCELLANEOUS. LXIV(4).

(Comprising only connections of a temporary character, readily releasable and not forming part of structures secured. This heading does not include bale tie fasteners, BOLTS ; CHAINS ; DOOR AND GATE OPERATING APPLIANCES ; DRESS FASTENINGS ; LOCKS ; NAILS AND ROPES AND CORDS.)

apparatus for stamping separator tape armature and cutting chain tape of slide fasteners, *see* Miscellaneous, etc.

Automatically operated railway carriage door fastenings. No case.

Clips and clamps. 63303, 63901, 65007, 65008.

Doors and windows, special fastenings for, not covered by other sub-divisions. 64381, 64468.

film fasteners, *see* Clips and camps.

Hasp and like hinged and pivoted fastenings. 63500, 64444, 66189.

jumpfeed apparatus of slide fastener chain machine, *see* Miscellaneous.

Miscellaneous. 62815, 62816, 62817, 62818, 62835, 63319, 63320, 63539, 64042, 64742, 64938, 65244, 65386.

Multiple fastenings. No case.

operated or controlled from distance. No case.

plug and socket type fastening device, *see* Stud, etc.

Seal fastenings. 66231.

slide fasteners, *see* Miscellaneous.

slider forwarding and forming apparatus for making slide fasteners. *see* Miscellaneous.

FASTENINGS, MISCELLANEOUS—contd.

Sliding bolts and latches, 63505, 64581.

Stud or ball and eye or socket fastenings. 64430, 64740.

FATS AND FATTY OILS (EXCLUDING BUTTER AND THE LIKE). XI(1).

(Steps in the production of fats and fatty oils involving improvements in connection with aerating, cooling, crushing and grinding, distilling, drying, filtering, mincing, mixing, moulding and preserving are indexed under headings denoting such operations.)

compositions containing fats and fatty oils and drying oils. 62987, 64329, 64366, 64813.

Extracting and obtaining (other than recovering from waste products)—

By pressure. 63339.

By solvents. 63339, 63631, 65861.

fatty material—vitaminised, *see* Compositions, etc.

Hydrogenated and modified fats and fatty oils. 65402.

Purifying. No case.

fatty acids, *see* CARBON COMPOUNDS, ETC.

Recovering from waste products. No case.

Fatty acids unsaturated, hydrogenation of, *see* CARBON COMPOUNDS, ETC.

Fatty material, vitaminising a colouring, *see* FATS, ETC.

Fatty oil compositions, *see* FATS, ETC.

Feeding textile fibres apparatus for, *see* SPINNING, ETC.

Feedstuff, animal, *see* ANIMALS, ETC.

FENCING, TRELLIS AND WIRE NETTING. XXVII(2).

No case.

Ferrite matrix storage devices, *see* ELECTRIC SIGNALLING, ETC.

Fibres coated material, *see* PROOFING, ETC.

Fibres, artificial, *see* CELLULOSE, ETC.

Fibres films and tapes and like shaped articles for polymerise compositions, *see* CELLULOSE, ETC.

Fibres or ribbon of glass producing by drawing, *see* GLASS, ETC.

Fibres, proofing, *see* PROOFING, ETC.

Fibrous materials, *see* PAPER.

Field windings of dynamo-electric machines, *see* DYNAMO, ETC.

Field windings of electromagnets, *see* DYNAMO, ETC.

Filament fibres, threads, or film like materials synthetic treatment of, *see* CELLULOSE, ETC.

Filaments and films, cellulose, *see* CELLULOSE, ETC.

Filamentary structures from graft polymers, *see* CELLULOSE, ETC.

FILING PAPER AND LIKE SHEETS. XLII(3).

65759.

Film fasteners clamps, *see* FASTENING, ETC.

Films, filaments and fibres, of synthetic resin, *see* CELLULOSE, ETC.

Films tapes sheets and like shaped synthetic polymerse articles treating to improve then mechanical properties, *see* CELLULOSE, ETC.

FILTERING AND STRAINING LIQUIDS. VI.

Block filters (comprising apparatus in which filtering materials consist of earthenware, stone and other rigid porous materials and compositions).
No case.

Filter and contact beds. No case.

filter element for, *see* Media filtering.

Filter presses. 64026.

Filters with loose filtering materials (other than filter and contact beds).
No case.

Media, filtering. 63377.

Moving filters (including centrifugal filters). No case.

paper or felt filter, *see* Strainers, etc.

Presses for separating liquids from solids by compression. 65605, 65606.

roller mills, *see* GRINDING, ETC.

Separating liquids from liquids, solids and mixtures by gravity only apparatus for. 64292.

Strainers and filters having sheet filtering materials (including grids and gratings but not rigid porous materials). 64134, 65129.

Tube well strainers and like (strainers on pipes). No case.

Unclassified types of filters. 62892.

Finishing polyester fabrics by liquid treatment, *see* DYEING, ETC.

Fire alarm systems, *see* ALARMS FIRE, ETC.

FIRE EXTINGUISHING AND PREVENTING. XXXIX(4).

64571, 64845.

FISH AND FISHING. XIV(4).

62996.

Fixing and mounting of fan casing, *see* CENTRIFUGAL AND SCREW, ETC.

Flash lamps, *see* BURNERS, ETC.

Flashlights, *see* ELECTRIC SWITCHES, ETC.

Flast lamps, *see* BURNERS, ETC.

Flexible books device manufacture of. *see* LOOMS.

Flexible pipe, *see* PIPES, ETC.

Floors, *see* BUILDINGS.

Fluid actuated impact tool, *see* MINING, ETC.

Fluid braking apparatus of automatic railway vehicles, *see* LOCOMOTIVES, ETC.

Fluid conducting swivel joints, *see* PIPE—JOINTS, ETC.

Fluid flow control valves, *see* VALVES, ETC.

Fluorides, *see* CHEMICAL COMPOUNDS, ETC.

Fluid pressure actuated, testing apparatus, *see* GAUGES, ETC.

Fluorides, *see* CHEMICAL COMPOUNDS, ETC.

Flushing with linseed oil, *see* METAL WORKING.

Fly shuttle loom, *see* LOOMS.

Foam generating apparatus, *see* FIRE EXTINGUISHING, ETC.

Folding chairs, *see* FURNITURE.

Food for animals, *see* ANIMALS, ETC.

FOOD PREPARING AND PRESERVING. XIV(5).

(This heading does not include tea and like preparations and substitutes. Steps in the process of food production such as bottling, concentrating or distilling, cutting or mincing, drying, emulsifying, filtering, flavouring, grinding, mixing, moulding, and packing are indexed under headings denoting such operations.)

chilling process for preservation of food-stuffs, see Food preserving, etc. (Liquid, etc.).

for animals, see ANIMALS, ETC.

Food preparations—

Cereals, vegetable, fruit, and confectionary. 63271, 64226, 64457, 64956, 65138, 65180, 65366, 65721, 65861, 66136.

Dairy food. 62987, 64813.

Meat, fish and eggs. 63409.

Yeast and yeast extracts. 64552, 64910.

Food preserving, sterilising and conditioning—

By cooling and cold storage. 63111.

By gases and vapours. No case.

By heating, cooking or drying. 65138, 66057.

By treating with liquids preservatives. 64049, 65551.

Miscellaneous. 63395, 63659, 63706, 64762, 65138, 65505.

Storage receptacles and chambers. No case.

treating animal or vegetable matter, see Food preserving, etc. (Miscellaneous).

Foodstuffs preservation, see FOOD PREPARING, ETC.

Fork lift trucks, load handling mechanism for, see LIFTING, ETC.

Fork lift trucks, propelling & steering mechanism for, see MOTOR VEHICLES, ETC.

Forming Hockey stick bends, see GAMES, ETC.

Froth flotation systems, see WASHING, GRANULAR, ETC.

Fountain pens, see WRITING APPLIANCES.

Frames for crates, boxes and like, see BOXES, ETC.

Free piston machines internal combustion, see INTERNAL, ETC.

Free-piston gas-generators, see INTERNAL COMBUSTION, ETC.

Fuel feeding to furnaces, see FURNACES, ETC.

Fuel filter for diesel vehicles, see INTERNAL, ETC.

Fuel injection equipment for internal combustion engines, see INTERNAL COMBUSTION, ETC.

Fuel injection pumps for internal combustion engines, see INTERNAL COMBUSTION, ETC.

Fuel injectors for combustion engines, see INTERNAL COMBUSTION, ETC.

FUEL MANUFACTURE OF. XXXII(2).

(Excepting COKING, AND GAS MANUFACTURE.)

brequettes fuel, see Solids, etc.

Gaseous fuel. 63195, 65461.

gasoline preventing ice for motion in exhaust systems, see Liquid, etc.

FUEL MANUFACTURE OF—contd.

Liquid fuel preparations (other than solidified and gelatinised oils).
62790, 62985, 63346, 63397, 64009, 64212, 64578, 64834, 65144, 65558, 65716,
65891, 65909, 66122.

Solid and powdered fuels (other than solidified and gelatinised oils)—

From various forms of carbon (comprising coal, lignite, carbonaceous
shales, coke, charcoal and soot). 63799, 64523, 64895, 65320, 65321, 65775,
65853.

Other than from various forms of carbon. 63799.

Solidified and gelatinised oil fuels. No case.

Fungicidal compositions, *see* DISINFECTING, ETC.

Fungicides, *see* DISINFECTING, ETC.

Furfural derivatives, *see* CARBON COMPOUNDS, ETC.

Furnace for preparing carbon black, *see* FURNACES, ETC.

FURNACES AND KILNS. XXXI.

*(Excepting BURNERS, and STOVES, Converters, metallurgical are indexed
under IRON & STEEL, ETC.)*

Air heating furnaces. No case.

arrangement for cooling material at the discharge and of a furnace by air
quenoling, *see* HEATING SYSTEMS, ETC.

blast furnaces, *see* shaft, etc.

burner installations for, *see* BURNERS, ETC.

Casings, walls, arches and roofs. 64136.

Charging, discharging and fuel feeding. 63332, 64561, 65186, 65360.

Crucibles and melting pot furnaces. No case.

Doors, lids, door frames and furnaces fronts. No case.

electric furnaces, *see* HEATING, BY, ETC.

Firebars, grates, fire-bridges and ash-pans. 63215.

Furnaces of miscellaneous type. 65122, 65220.

Kilns, brick, pottery and like and tunnel furnaces. 65339, 65823, 65853.

Liquid and gaseous fuel combustion apparatus. 63332, 64066, 64067.

Miscellaneous. 64762, 64869, 65614.

oil burning furnaces, *see* liquid, etc.

Pulverised fuel combustion apparatus. No case.

Refuse, consuming and destructor furnaces. 64974.

Regenerators and regenerative fittings for furnaces. 65839, 66273.

Retort furnaces (excepting coke-ovens). No case.

Reverberatory, open, hearth and like furnaces. 63207, 63739.

Roasting and calcining and otherwise treating pulverulent and pasty mate-
rials furnaces for (other than kilns, reverberatory, rotary and shaft fur-
naces). No case.

Rotary furnaces and kilns. 65221, 66005.

rotary furnaces, *see* FURNACE, ETC.

Shaft and like furnaces (including blast and cupola). 64136, 64911, 65823.

Smoke preventing and consuming. 65201.

FURNACES AND KILNS—contd.

smoke preventing devices, *see* Smoke preventing etc.

stokers, mechanical, *see* Charging, etc.

supporting frames for casing, *see* Casings, etc.

Tilting and oscillating furnaces. No case.

Furnaces for a fused salt electrolysis of aluminium, *see* ELECTROLYSIS, ETC.

FURNITURE. LXVI(4).

Cabinets, wardrobes, book cases and miscellaneous furniture and fittings. 63034, 64829, 66184.

Chairs, seats, beadsteads and like furniture for sitting and lying upon. 63024, 63412, 63528, 63754, 64051, 64061, 65613, 66023, 66024.

folding chairs, *see* Chairs, etc.

hangers for clothes, *see* Window, etc.

surgical tables, *see* Chairs, etc.

Tables, desks, and leaf-turners and holders. 64828.

Upholstery, wall furniture, screens and looking glass. No case.

Window, stair and like furniture, brackets, racks and stands. 63267, 63576, 65608.

Fuses for shell throwers, *see* AMMUNITION, ETC.

G

Galvanic cells, *see* BATTERIES, ETC.

GAMES, TOYS AND AMUSEMENT APPARATUS. XLII(4).

Amusement, recreative and exercising apparatus (other than games and toys). 64619.

Balls for games. 64251.

Bats, clubs, rackets and like striking appliances for games. 64382, 64383.

forming hockey stick bends, *see* Bats, clubs, etc.

Indoor games (other than construction of bats and striking appliances). 63214, 65014, 65758.

Miscellaneous. No case.

Outdoor games (other than construction of bats and striking appliances, but including preparation of ground for). No case.

Presses for rackets, tennis and like. No case.

Racing games. 64078.

Toys. 66211.

Gas burner, *see* BURNERS, ETC.

Gas-burning cooking appliances, *see* STOVES, ETC.

Gas compressors, *see* AIR AND GASES, ETC.

GAS MANUFACTURE (OTHER THAN BY GAS PRODUCERS AND RETORTS) AND DISTRIBUTIONS. XXXII(3).

(This heading includes the manufacture of combustible gaseous products for illuminating, heating and motive power purposes.)

Collection of gaseous or liquid by-products. No case.

Gas enrichers (in which gas is not burned immediately), including enriching compositions. 63711, 65461.

GAS MANUFACTURE, ETC.—contd.

Gas holders. 63712, 65488.

Miscellaneous. No case.

Production of permanent gas by dissociation or partial combustion of liquid fuel (excepting cracking). 63364, 63441.

reduction valves for gas holders, *see* VALVES, ETC.

Washing, scrubbing or otherwise treating gases with liquids. 63364, 65921, 66174, 66260.

Gas mixtures, producing, *see* COKE, ETC.

Gases, purifying or separating solids otherwise than by washing, *see* AIR AND GASES, ETC.

Gases storing under pressure, *see* AIR AND GASES, ETC.

Gasification of liquid fuels by cracking, *see* DISTILLING, ETC.

Gasification of liquid fuels otherwise by cracking, *see* GAS MANUFACTURE, ETC.

Gasoline compositions, *see* FUEL, ETC.

Gasoline compositions for fuel, *see* FUEL, ETC.

Gasoline, fuel, *see* FUEL, ETC.

Gasoline, hydrogenation of, *see* DISTILLING, ETC.

Gas turbines, *see* TURBINES, ETC.

GAUGES, MEASURES OF LENGTH AND TESTING APPARATUS. XLI(6).

63052, 63659, 63995, 64343, 64486, 64885, 65347, 66079.

Gear cases for cycles, *see* CYCLES, ETC.

Gear changing devices for motor vehicles, *see* MOTOR VEHICLES, ETC.

Gearing epicyclic, *see* MECHANISM, ETC.

Gelatine particulate, material, *see* DISINFECTING, ETC.

Gelatine particulates treatment of, *see* ADHESIVES, ETC.

Gesodesic building, *see* BUILDINGS, ETC.

Germinating grains and seeds, *see* GRAIN AND SEEDS, ETC.

Gibberrellic acid, *see* CARBON COMPOUNDS, ETC.

Girders, *see* BUILDINGS, ETC.

Glass fibres, *see* GLASS, ETC.

GLASS MANUFACTURE. XXXVI.

Annealing, tempering and toughening glass. 63407.

apparatus and process for the manufacture of glass fibres, *see* Drawing, etc.

batches and composition for making glass, *see* Production, etc.

bending glass sheet, *see* Miscellaneous.

bending glass sheets, apparatus for, *see* Miscellaneous.

Blowing hollow-ware. No case.

Compound or laminated glass sheets. 64401, 64869.

Cutting or dividing. No case.

Delivering and gathering molten metal. No case.

Drawing and extruding. 63140, 63359, 63360, 63813, 63921, 64032, 66183.

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Enamels and enamelling vitreous. 63320, 64890, 65813, 66019, 66137.

GLASS, ETC.—contd.

fibres or ribbon of glass producing by drawing, see Drawing, etc.

Glassware forming by miscellaneous processes. 64029.

Miscellaneous. 63238, 63605, 63811, 63837, 63839, 63923, 63924, 63976, 64225, 64397, 65123, 65216, 65865, 65983, 66271, 66281.

Moulding and casting (other than blowing). 63837, 64011, 65216, 66182, 66271.

Production and purifications of metal. 63813, 64225, 65983.

tinsel powder made of small glass particles, see Miscellaneous.

Glass sheet, polishing of, see POLISHING, ETC.

Glazing bar assemblies, see BUILDINGS, ETC.

Glove, see DRESS, ETC.

Glow discharge apparatus for treating surfaces of bodies, see VACUUM, ETC.

Glucaronolactone, see CARBON COMPOUNDS, ETC.

Glucaronic acid, see CARBON COMPOUNDS, ETC.

**GOVERNORS, SPEED-REGULATING FOR ENGINES AND MACHINERY.
XLIV(2).**

65158, 65703.

Grading and processing of threshed tobacco mixture, see CIGARS, ETC.

GRAIN AND SEEDS, TREATMENT OF (INCLUDING TREATMENT & PRODUCTION OF FLOURS AND MEALS). I(3).

(This heading includes the treatment in bulk of single stone fruits and nuts for the removal of pericarp methods and apparatus not resulting in such modification are indexed under various headings for the processes such as DISINFECTING, ETC.; FOOD, ETC.; SIFTING, ETC.)

Dumping with and otherwise applying water and other liquids. No case.

Flattening by mechanical means. No case.

Hulling, husking and decorticating mechanically. 63610.

Miscellaneous—62976, 65370, 65702.

Production and treatment of flour and meal (including processes of mechanical reduction other than treating by air, gases and liquids). No case.

Roasting grains, cereals and like granular food products. No case.

Sampling granular materials. No case.

Scouring and polishing. No case.

Thrashing appliances. No case.

Treating by air, gases or vapours (including steaming and heating indirectly). No case.

Grambled ammonium nitrate fertilizer, see MANURE.

Gramophone records, apparatus for driving, see PHONOGRAPHS, ETC.

Granulating by drying, see DRYING, ETC.

GRANULATING FUSIBLE MATERIALS. XXXIII(4).

62986, 63127, 63286, 63807.

Granulating plastic and powdered substances by moulding, see MOULDING, ETC.

Graphitic compositions containing synthetic resins, see PLASTIC, ETC.

Grids for electronic discharge tubes, see VACUUM, ETC.

GRINDING, CRUSHING, PULVERISING AND LIKE DISINTEGRATING. **XXXIV(2).**

(This heading does not include Agricultural implements (AGRICULTURE); Graters and crumblers (COOKING); Hulling, husking and decorticating grains (GRAIN, ETC.); Rag engines (PAPER); Preparation of fibres for spinning (SPINNING); Cutting and breaking tea (TEA MANUFACTURE); Thrashing machines (GRAIN AND SEEDS, ETC.)

Ball and tube mills. 63776, 64702, 65971, 66030.

communicating solids in fluid stream, see Miscellaneous.

Conical and like mills. No case.

Disc and like mills (stone mills). 62968, 63999.

Edge-runners and pans and like mills. No case.

feeding devices for granular and like materials. see Miscellaneous.

Grinding and breaking by direct percussion (including stamps for ores and pestles and mortars). No case.

Impact pulverisers. No case.

Miscellaneous types of mills and details—

Grinding in air stream. 65775.

pricking machine for pulses, see Miscellaneous.

process for extracting moisture from tea leaves, etc., see Roller mills, etc.

pulversing solid material in pulverising mills, see Ball & tube mills.

Roller mills other than sugarcane mills. 63255, 63628.

Sugarcane mills. No case.

Gun mountings, see SMALL ARMS, ETC.

Gypsum drying, see DRYING, ETC.

Gypsum dying, see DRYING, ETC.

H

Hair spray preparatives toilet, see TOILET, ETC.

Halides metallic, see CHEMICAL, COMPOUNDS, ETC.

HAND TOOLS. XLIII(2).

(This heading does not include Boring and Drilling tools.)

Box openers, crow-bars and like prizing tools. No case.

Chisels and gouges. No case.

Cramps and clamps and vices. 62819, 65468.

Extracting and removing nails, tacks, rivets, keys, cotters, collars, hand-tools for. No case.

Files and rasps. No case.

Handles for hand-tools, including those for brushes, cutlery, mop and the like. No case.

Mallets and hammers. No case.

Miscellaneous. 66025, 66105.

Pliers, cutters, pincers and tongs. 64786.

pneumatic wrenches, see Spanners, etc.

Screw drivers. 63063, 64219, 65680.

HAND TOOLS—contd.

Spanners and wrenches. 63721, 64219.

tool holder, *see* Cramps, etc.

Hangers for clothes, *see* FURNITURE.

HARNESS, SADDLERY AND HORSE SHOES. XXIV(2).

No case.

Hasp fastening for luggage and like boxes, *see* BOXES, ETC.

Heald testing machine, *see* LOOMS.

Heat exchangers, *see* HEATING, ETC.

Heat resistant varnishers, *see* PAINTS, ETC.

Heat transmitting tubes, *see* HEATINGS, ETC.

Heat treatment of running yarns, *see* CELLULOSE, ETC.

Heat treatment of thermoplastic textile materials, apparatus for. *see* CELLULOSE, ETC.

HEATING BY ELECTRICITY. LIX(2).

Arc furnaces. 64027, 64608, 64930.

electric heaters for domestic office or industrial, etc., *see* Radiators, etc.

Electrodes for electric furnaces. 65297.

furnaces, supply systems for, *see* ELECTRIC SUPPLY, ETC.

Heaters for liquids and accessories therefor. 63115, 64727, 65518, 65533, 65534, 65776.

Hot plates, boiling rings, and like appliances (other than adapted for use as radiators). 65968.

Induction furnaces and ovens and other furnaces not classified. 64169, 64499, 64930.

Miscellaneous. 62747, 65149, 66190.

Radiators, imitation fires, and stoves for heating buildings or vehicles. 62748.

Resistance furnaces (the resistances forming parts of the furnace or oven). 64930.

HEATING SYSTEMS AND APPARATUS (OTHER THAN FURNACES AND STOVES). VII(2).

(Heating processes and apparatus applicable to BURNERS; FURNACES; STEAM GENERATORS; STEAM SUPERHEATERS; STOVES are excluded from this heading.)

arrangement for cooling material the discharge end of a furnace by means of air quenoling, *see* Liquid gases, etc.

bathes for heating plastic tubes, *see* Miscellaneous.

Buildings ships and vehicles, systems for heating. 63724.

Digesters (closed heaters in which substances are disintegrated with liquids). 63145, 63147.

Feed-water for hot-water boilers and steam generators, heating. No case.

heat transmitting tubes, *see* surface apparatus, etc.

Liquids and gases, heating (other than feed-water heaters; and apparatus involving structural modifications of furnaces and stoves). 63209.

Miscellaneous heating systems. 64191, 64667, 64855, 64876, 65220, 65221, 65939.

HEATING SYSTEMS, ETC.—contd.

Non-conducting coverings for heat and sound (including fire proof coverings and linings). 65076, 66097, 66216.

Surface apparatus for effecting transfer of heat (other than apparatus in which heat is transferred from products of combustion).

(Adaptation and arrangements of surface apparatus for special purposes are indexed only under separate headings, such as COOLING, ETC.; DISTILLING, ETC.; STEAM GENERATORS; STEAM SUPERHEATERS; FURNACES, ETC.)

(Apparatus for effecting transfer of heat from products of combustion are indexed only under STEAM GENERATORS or STEAM SUPERHEATERS.)
62808, 63355, 63465, 63678, 63889, 63996, 64876, 65051, 65941, 66230.

Thermostats and like apparatus for regulating temperature. 65355.

Utilising for heating and power proposes solar and natural heat. 63645, 64526, 65751.

Helicopter, *see* AERONAUTICS, ETC.

Herbicidal compositions, *see* DISINFECTING, ETC.

Heterocyclic amines, *see* CARBON COMPOUNDS, ETC.

High heel for ladies shoes, *see* BOOTS, ETC.

High tension insulator, *see* CONDUCTORS, ETC.

HOLLOW WARE. XL(4).

[Excepting bottles for storing air and gases under pressure (AIR AND GASES); bed pans (CLOSETS; BOTTLES, ETC.); cold and heat retaining vessels (COOLING); creet and like receptacles and drinking vessels and other table articles (TABLE ARTICLES); tea and like infusions making apparatus for (DECOCTIONS) and wash-hand basins (CLOSETS).]

Bucets, pails, baking, heating, cooking and like vessels metallic. 66160.

Cans and boxes, opening by cutting or tearing. 65497.

Casks and barrels. 63761, 63762, 66059.

cold and heat retaining food containers, *see* COOLING, ETC.

Lids and covers not forming tight joint with receptacles. No case.

metal hogshead, *see* Casks, etc.

Miscellaneous. 64128, 64754, 66084.

Non-metallic vessels, other than casks and barrels. No case.

paper-board hogshead or a containers, *see* Casks, etc.

Spouts. 64617.

Tubes or containers, collapsible. 63866, 66059, 66266.

bungs and bushes for bungholes, *see* STOPPERING.

filling with liquids, casks and like vessels; *see* STOPPERING.

lids forming tight joint with receptacles, *see* STOPPERING.

Hormoves and animal glass extracts, *see* DISINFECTING, ETC.

Hot stretching fabrics, *see* FABRICS, FINISHING, ETC.

HOT-AIR AND COMPRESSED-AIR ENGINES. XLVI(1).

64320, 66168.

HYDRAULIC ENGINEERING, MISCELLANEOUS. XXVIII(2).

(This heading includes subaqueous buildings, canals, flow meters, siphons, sluice-gates and the like.)

Booms and like defences for coasts, harbours and rivers. No case.

HYDRAULIC ENGINEERING, ETC.—contd.

Buildings, and structures, sub-aqueous. 65862.

Canals and rivers. No case.

Fountains, hydrants standpipes and water cranes. No case.

Liquid meters and venturi, pitot-tube and other velocity measuring apparatus. 63498.

Miscellaneous—

Water pipe line, damping shocks in. 63026.

Siphons. No case.

Sluice-gates. 63782.

spray producers, *see* SPRAY PRODUCERS.

Hydraulic jack for pretensioning reinforcing wires, *see* LIFTING, ETC.

Hydraulic fluids, *see* HYDRAULIC PRESSES, ETC.

HYDRAULIC PRESSES, METERS, MOTORS AND LIKE APPARATUS FOR USE WITH HIGH PRESSURE. XXIX(1).

Hydraulic presses (including steam and other fluid pressure presses and hammers). 65605, 65606.

Hydraulic transmission of power. 63165, 64616, 65483, 66022, 66277.

Liquid pressure engines and Liquid meters. 63995.

Machines and apparatus, miscellaneous. 62749, 63025, 63349, 63627, 63721, 64059, 64666.

valves for hydraulic systems, *see* VALVES, ETC.

vibrators hydraulic, *see* Mechanisms, etc.

Hydraulic systems, *see* HYDRAULIC, ETC.

Hydrazides, *see* CARBON COMPOUNDS, ETC.

Hydrazine alkyl, *see* CARBON COMPOUNDS, ETC.

Hydrocarbon oils, desulphurisation of, *see* OILS, ETC.

Hydrocarbons cracking, *see* DISTILLING, ETC.

Hydrocarbons isomerisation of, *see* CARBON COMPOUNDS, ETC.

Hydrogen, *see* NON-METALLIC, ETC.

Hydrogen obtaining by electrolytic process, *see* ELECTROLYSIS, ETC.

Hydrogen peroxide, *see* CHEMICAL COMPOUNDS, ETC.

Hydrogen sulphide, *see* CHEMICAL COMPOUNDS, ETC.

Hydrogine derivatives, *see* CARBON COMPOUNDS, ETC.

Hydroxy ketons, *see* CARBON COMPOUNDS, ETC.

Hypochlorites, metallic, *see* CHEMICAL COMPOUNDS, ETC.

Hypochlorite of soda, *see* CHEMICAL COMPOUNDS, ETC.

Hypotensive compositions, *see* DISINFECTING, ETC.

I

Igniters, electric, *see* AMMUNITION, ETC.

Ignition devices for bombs or projectiles, *see* AMMUNITION, ETC.

Ignition devices for rockets, *see* AMMUNITION, ETC.

Imidazoles, *see* CARBON COMPOUNDS, ETC.

Impregnating medium for electric condensers, *see* CAPACITANCES, ETC.

Incandescent lamps electric, *see* ELECTRIC LAMPS, ETC.

INCRUSTATION AND CORROSION OF METALLIC SURFACES—PREVENTING AND REMOVING. XLV(1).

62953, 63414, 63998, 64156, 64357, 64582, 64653, 64700, 65230, 65486, 66220, 66222.

Indene derivatives, *see* CARBON COMPOUNDS, ETC.

INDIA RUBBER, CUTTA-PERCHA, MICA AND LIKE MATERIALS OF CONSTRUCTIVE UTILITY. XII(1).

bladders and like hollow inflatable rubber articles making, *see* MOULDING, ETC.

Coagulating and otherwise separating from latex. 63796.

Colouring, ornamenting, variegating and metallizing. No case.

composition for incorporating in vulcanised articles, *see* Vulcanising, etc.

Curing and treatment of latex before and after coagulation. 63188, 63749.

Devulcanising and utilising waste. No case.

elastomers, vulcanised, *see* Vulcanising.

Embedded wires, fibres and the like. 62748, 64796, 65149, 65150.

India rubber compositions. 62982, 64172, 64379, 64798, 64902, 66194.

Latex collecting and extracting from plants. No case.

Machines for creping, calendering, washing, drying, purifying, rolling, and mechanical extraction from plants. No case.

Mica and other naturally occurring materials of constructive utility. No case.

Miscellaneous. 66107.

process of compounding rubber, *see* Coagulating, etc.

Rubber, rendering porous, spongy or powder. 63716, 63800.

Seaming and otherwise joining. No case.

Seweed and like marine products, treating. No case.

Sheets, threads, tapes, rods, rollers, cylinders and tubes making. No case.

Substitutes for rubber. 65064, 65415.

Vulcanising. 62803, 62975, 63510, 64171, 64172, 64379, 64718, 65419, 65830, 65967, 66212.

INDICATING, RECORDING AND REGISTERING APPARATUS, MISCELLANEOUS. XLI(7).

(This heading includes the terminal elements of measuring instruments whereby an indication at the moment is furnished, a permanent record is made, or a totalising is effected by integration. Dials, knobs, handles, scales and other graduated and reading elements for manually adjusting and setting the parts of measuring instruments and other apparatus, of which the reading-elements are not of interest as indicating means in general, are indexed under separate heading for the apparatus.)

Calenders and date indicators. No case.

Indicating. 65235, 65357, 65854, 66010.

Miscellaneous. No case.

Recording and registering. 63785, 66010.

Indole derivatives, *see* CARBON COMPOUNDS, ETC.

Industrial truck adopter to handle large and heavy loads considerable height, *see* LIFTING, ETC.

Inidazolidines, *see* CARBON COMPOUNDS, ETC.

INJECTORS AND EJECTORS. XLVII(2).

No case.

Injectable solutions, *see* DISINFECTING, ETC.

Insecticidal compositions, *see* DISINFECTING, ETC.

Insecticides, *see* CARBON COMPOUNDS, ETC.

Insecticides, *see* DISINFECTING, ETC.

Insulating conductors electric, *see* CONDUCTORS, ETC.

Insulating materials, electric, *see* CONDUCTORS, ETC.

Insulin and insulin preparations, *see* DISINFECTING, ETC.

INTERNAL COMBUSTION ENGINES. XLVI(2).

(This heading includes features specially designed and adapted for internal combustion engines. Construction of engine details and accessories of interest apart from internal combustion engines are indexed under such headings as BRAKES; FILTERING; LUBRICATING; MECHANISM, MISCELLANEOUS; STEAM ENGINES; VALVES, ETC.)

Bed-plates frames and casings. 65568.

Cycles and systems of working (including types of engines). 63294, 63423, 63499, 63992, 64290, 64549, 64654, 65637, 65884, 65893.

cylinder heads, *see* Cylinders, etc.

Cylinders and combustion chambers. 62889, 63992, 64846, 64847, 65139, 65264, 65569, 65594.

Driving gear. No case.

Exhaust silencers. No case.

free-piston gas generators, *see* Cycles and systems, etc.

free piston gas generator driven turbines, *see* TURBINES, ETC.

free piston machines in combination with other machines such as turbines, *see* TURBINES, ETC.

fuel-filter, *see* Miscellaneous.

fuel injection equipment pump, *see* Pumps.

fuel injection pumps for, *see* Pumps.

fuel supply, systems, other than carburetors and vaporisers, *see* Miscellaneous.

Igniting systems. 64234, 64846, 64847, 65264, 65365.

method of operating two-stroke hot internal combustion engine, *see* Cycles and, etc.

Miscellaneous. 63177, 63389, 64134, 64513, 64846, 64847, 65568.

piston and piston rod construction of, *see* STEAM ENGINES, ETC.

push rod for interconnecting movable members in a machine, *see* Miscellaneous.

push rod for valve operating rockers arm, *see* Valves, etc.

Pumps. 63452, 63630, 64528, 64846, 64847, 65485, 65945, 66127.

rotary piston engines, *see* Cycles, etc.

sparkign plugs, *see* Igniting, etc.

Spray carburettors. 64391.

Starting, stopping and reversing. 63499, 64899, 65304.

Valves and valve gear. 63389, 64273, 65722, 65969.

Vapourisers and heaters. No case.

INTERNAL COMBUSTION, ETC.—contd.

Interpolymers of polyolefinic resins, *see* CARBON COMPOUNDS, ETC.
Ionylidine phosphonium halides, *see* CARBON COMPOUNDS, ETC.

IRON AND STEEL MANUFACTURE. XXXIII(5).

carbon and other impurities removing by process other than bessemer, electric and other hearths, *see* Miscellaneous.

Converters, metallurgical. 63767, 64497.

Extracting from ores—

Direct processes. 64307, 65174, 65339, 65619, 65656, 65835, 66133.

Smelting processes—

Blast furnace processes. 62977, 63621, 63806.

Other than blast furnace processes. 63789, 64242, 64499, 64891

Steel making and purifying—

Bessemer processes. 63001.

Electric processes. 64499, 65013.

Miscellaneous. 63000, 63001, 63062, 63260, 63374, 63621, 63767 63806, 64163, 65174, 65437.

Open hearth and reverberatory furnace processes. 63739.

Recarburising and other finishing processes. No case.

Isoindolinones, *see* CARBON COMPOUNDS, ETC.

Isophthalic acid, *see* CARBON COMPOUNDS, ETC.

Isopropylphenyl N-methylcarbamate, *see* CARBON COMPOUNDS, ETC.

Isotactic polypropylene covered natural fibre, *see* ROPES, ETC.

J

Jacks hydraulic, *see* HYDRAULIC PRESSES, ETC.

JEWELLERY. LXVI(5).

64794.

Joining piece ends of textiles, *see* FABRICS, FINISHING, ETC.

Joints carpenters, joiners and like, *see* BUILDINGS, ETC.

Joints making packing, *see* STEAM ENGINES, ETC.

Jump feed apparatus of slide fastner, *see* FASTENING, ETC.

K

Ketones, *see* CARBON COMPOUNDS, ETC.

Key ring, *see* FASTENINGS, ETC.

KNITTING AND BRAIDING. XXI(2).

63250.

L

Labelling machines, *see* LABELS, ETC.

LABELS, COINS, TOKENS AND TICKETS. XLII(5).

63022.

Lacquers, *see* PAINTS, ETC.

Lactam, *see* CARBON COMPOUNDS, ETC.

Laminated sheet material, from paper, fabric and the like, *see* PROOFING, ETC.

LAMP-CHIMNEYS, GLOBES, LENSES, SHADES, REFLECTORS, AND HOLDERS THEREFOR. XXX(3).

Chimneys, globes like illuminant enclosure. 63393.

Galleries, holders and mountings for chimneys, globes, shades and reflectors.
No case.

Lenses, prisms and equivalent lantern fronts and holders therefor. 63742, 65173.

Miscellaneous. No case.

Obturators, screen and like shutters for obscuring light. No case.

Reflectors and reflecting surfaces. 65175.

Shades. 66062.

LAMPS FOR LIGHTING AND HEATING (EXCEPTING BURNERS AND BURNER FITTINGS, LAMPS, CHIMNEYS, GLOBES, AND ELECTRIC LAMPS). XXX(4).

Acetylene and like lamps without lanterns. No case.

Igniters and lighters for burners, cigars and like. No case.

Miscellaneous. 63907.

Portable lamps other than vehicle, signal and like. No case.

Search lights, beacon lights buoy and like lamps. No case.

Street, shop front, ceiling, wall and like fixed lamps. No case.

Supporting and directing. 63907.

Systems of lighting. No case.

Vehicle, signal and like lamps. No case.

Lathes, boring, *see* METAL, ETC.

LEATHER. XXIV(3).

(Operations and apparatus of interest apart from making leather are indexed under such headings as DYEING, DISINFECTING.)

Currying, impregnating and other finishing processes. 63419.

Detanning and recovering tanning materials from waste. No case.

Leathers, fancy and leather substitutes produced by tanning processes. 63180.
ornamenting, *see* Miscellaneous.

Miscellaneous. 63180, 65477.

extracts, vegetable, for tanning making ; *see* Miscellaneous.

Processes, preliminary to tanning (including apparatus for such processes) 64354.

Tanning processes (including apparatus for such processes). 65055.

LIFE SAVING APPLIANCES, MARINE AND FIRE. XXXIX(5).

No case.

Lift truck, *see* LIFTING, ETC.

LIFTING, LOADING AND CONVEYING SOLIDS. XLIX.

(Adaptation and arrangement of lifting, lowering and hauling apparatus for traction of vehicles or for handling ships and boats are indexed under headings denoting such special use. Only features of interest apart from particular use are indexed here.)

accumulator, storing and processing strips, see Combination, etc.

Cable haulage and aerial ropeways. 64931.

Combination plants for mechanically handling and stacking materials. 62950, 63237, 63519, 63661, 63896, 63897, 64059, 64202, 64203, 64253, 64254, 65266, 65309, 65504.

conveyor comprising carrier means, see Endless belt, etc.

crossing of ropes in a conveyor, see Endless belt.

discharging pulverulent material, see Miscellaneous.

Endless belt, chain, bucket screw and rotary conveyors and elevators. 63415, 63525, 63662, 63756, 63829, 64081, 64192, 64193, 64194, 64195, 64586, 65085, 65508, 65770, 65851, 66132, 66251.

Grabs, lifting dogs, skips, tip buckets, slings and like load engaging, releasing and depositing means. 63415, 63954, 63955, 64058, 64205, 65622, 65930.

hydraulic jack for retensioning reinforcing wires, see LIFTING, ETC.

incorporating helical card reinforcement in endless belt, see INDIA RUBBER.

Jacks. 63865, 64725, 64726, 66079.

Lifts and cages. 64506.

load carrying trolleys operated by means of pusher dogs carried by an endless chain, see Endless, etc.

load carrying trolleys operated by means of pusher dogs carried by an endless driving chain, see Grabs, lifting dogs, etc.

Miscellaneous. 63797, 64099, 64206, 64276, 64506, 64854, 65391, 65622, 65770.

Winches and cranes. No case.

Lining concrete and like sturches, see BUILDINGS, ETC.

Lipstick-casing, see BOXES, ETC.

Liquefying air and gases, see AIR AND GASES.

Liquid forcing out to receiver by oven gas pressure, system for, see WATER, ETC.—(RAISING, ETC.).

Liquid fuel burners, see BURNERS, ETC.

Liquid meters, pressure operated, see HYDRAULIC PRESSES, ETC.

Liquor, device for burning, in furnaces, see FURNACES, ETC.

Load supporting means for vessels subjected to high pressures and temperature, see STEAM GENERATORS.

Lockers, furniture, see FURNITURE.

LOCKS (KEY AND PERMUTATION), SAFES AND STORING ROOMS. LXIV(5).

Key operated locks, other than padlocks, shackle and hasp-locks. 63370, 64701, 65156, 66039, 66118, 66159.

Miscellaneous. 65156.

Padlocks, shackle and hasp locks (key operated). 64701, 66039, 66118, 66159.

Permutation locks. 62887.

Safes and strong rooms. 63034, 66184.

LOCOMOTIVES AND TRACTION ENGINES, PORTABLE AND SEMI-PORTABLE ENGINES. XLV(2).

(This heading includes only components and details of special interest in respect of locomotives and traction engines, etc. features of interest apart from locomotives, etc. are indexed under headings denoting the parts affected.)

electromagnetically operated fluid pressure brake, *see* BRAKES.

Endless-track vehicles and tractors, general designs of. No case.

fluid braking apparatus for, *see* BRAKES, ETC.

Locomotives, general design of—

Bunkers, tanks and tenders. No case.

condensers, coolers, feed water heaters and superheaters, heat accumulators, arrangement and disposition of. No case.

Cylinder, drain valves and cocks and gear arrangement of exhaust reservoirs and valves. 65279.

Driving gear, arrangement of. No case.

Frames, plate and bar. No case.

Miscellaneous. No case.

Wheels, bogies and axles, arrangement and disposition of (including adjusting distribution of weight on axles). 65767.

Traction engines portable and semi-portable engines.

No case.

LOOMS. XXI(3).

Driving, reversing, stopping and starting. 63282 , 64288, 64609, 65579.

flexible hook device on loom, *see* Shuttleless, etc.

Miscellaneous—

Loom healds, testing machines for. 64545.

pin cards for controlling healds and shafts, *see* Shedding, etc.

Shedding mechanism. 63264, 63265, 64282, 64471, 64472, 64808, 65178.

Shuttleless, pile fabrics, swivel and like special looms. 62835, 63335, 63829, 64553, 65560.

Warp and fabric letting off, taking-up guiding and tensioning in. 63280, 63282.

Weft supplying, inserting, beating up, cutting, doubling and twisting in (other than for shuttleless and like special looms)—

Beat-up motions and change box motions. No case.

Lays, lathes or stays. No case.

Miscellaneous. 64553, 64583, 65807.

Pickers, shafts, straps and connections and picking motions. 66120.

Shuttles (including guards therefor). 65527.

Weft cutting, deflecting, slackening, tensioning and undulating. No case.

Weft, doubling and twisting and replenishing mechanism. 65356, 66119.

wire heald for shedding purpose, *see* Shedding mechanism, etc.

Lubricants, *see* OILS, ETC.

Lubricant distributing systems, valve assembly for, *see* VALVES, ETC.

LOOMS—contd.

Lubricant seal in earth boring drill, *see* LUBRICATING, ETC.—(MINING, ETC.).

Lubricants, *see* OILS, ETC.

LUBRICATING. LIV(2).

Cans and other portable containers for applying lubricants. No case.

lubrication of rear wheel bearing of single trak vehicles, *see* Passages, etc.—(Bearings, etc.).

Lubricators and lubricating bearing surfaces (other than lubricating passages, channels and reservoirs)—

Conveying lubricants by means other than force-feed, gravity feed, or mechanical means. No case.

Force-feed. 62903, 63537, 65148, 65697.

Gravity-feed. No case.

Lubricant conveyed by mechanical means. No case.

Miscellaneous. 64547.

Passages, channels and reservoirs for guiding or containing lubricant in machinery in—

Bearings. 64150, 65148.

Connecting rods, cranks, crossheads, eccentrics and knuckle and like joints. 65148.

Cylinders, pistons, piston rods and stuffing boxes. 65039.

Machinery and apparatus, unclassified. No case.

valve assembly for lubricant distributing systems, *see* VALVES, ETC.

Lubricating compositions, *see* OILS, ETC.

Lubricating oil, compositions, *see* OILS, ETC.

Lubrication of rear wheel bearing of single track vehicles, *see* LUBRICATING.

LUMINESCENT MATERIALS AND APPLICATIONS THEREOF. LXIII(2).

63304, 63637, 64409, 65946.

M

Magnetic amplifiers, *see* TELEPHONES, ETC.

Magnetic compress, *see* PHILOSOPHICAL, ETC.

MAGNETIC, ELECTROSTATIC AND LIKE SEPARATORS. XXXIII (6).

63554, 64016, 65449, 65888, 65997.

Magnetic heads for sound recording & reproduction, *see* PHONOGRAPHS, ETC.

Magnetic, signal recording apparatus, *see* PHONOGRAPHS, ETC.

Magnets, manufacture of, *see* DYNAMOELECTRIC, ETC.

MANURES AND FERTILIZERS. I(4).

62729, 63127, 63817, 63869, 65125, 65491, 65572, 65739.

Margarine, *see* FOOD, ETC.

Marine controllable pitch propeller, *see* SHIPS & BOATS.

Marine transmission gear for a controllable pitch propeller, *see* SHIPS & BOATS.

Master key operator cocks, *see* LOCKS, ETC.

MATCHES. XXXII(4).

64501, 64502.

Material processing machinery such as tea machinery, *see* TEA MANUFACTURE.

MEASURES OF CAPACITY AND DELIVERING MEASURED QUANTITIES. XLI(8).

Liquids, sampling. No case.

Measured quantities by volume, apparatus for separating from bulk and delivering—

(comprising only apparatus requiring external operation and adapted at each repeated and identical operation to measure and separate a predetermined volume and deliver it.)

Granular, and like fluent solid materials, volume apparatus for delivering. No case.

Miscellaneous. No case.

Volume apparatus for liquids having *fixed* measuring chamber. 62918.

Volume apparatus for liquids having moving measuring chambers. 63862.

Measures of capacity. No case.

MEASURING AND TESTING ELECTRICALLY. LVIII(6).

data reproduction electric apparatus for checking accuracy of, *see* Electric etc.

Electric and magnetic tests and measurements (other than those for geophysical exploration and current, pressure and resistance measuring). 62885, 63008, 63428, 63647, 64240, 64281, 64670, 64992, 65191, 65464.

Geophysical exploration by electric and magnetic means. 63647, 65962, 66156.

Meters, electric (including galvanometers and other current voltage, and resistance measuring instruments). 63549, 64880, 66085, 66086.

Miscellaneous. 65636.

potentiometer for use in connection with weighing apparatus, *see* Meter, etc.

radiation detection or measuring by photo electric cells, *see* Electric etc.

skid indicator, electric, *see* Electric, etc.

thickness of coating on base material, electric apparatus for measuring, *see* Electric & magnetic, etc.

Mechanical loom, *see* LOOMS.

Mechanism for controlling bobbin wind, *see* SPINNING, AND TWISTING, ETC.

MECHANISM (MISCELLANEOUS). LXV(1).

(This heading comprises only construction of such mechanism as clutches, gearings, linkwork, etc. Adaptations and arrangements of these mechanisms for particular machines are indexed headings for such machines.)

clutch plates, *see* Clutches, etc.

Clutches for conveying rotary motion. 63676, 63707, 63994, 64073, 64236, 64679, 65248, 65249.

Countershafts, crankshafts, and shafts and spindles. 63371, 63909.

Gearing belt, rope and chain. 63492, 63620, 63829, 64129, 66071.

MECHANISM (MISCELLANEOUS)—contd.

Gearing for conveying or converting reciprocating and rotary motion (comprising arrangements only of two or more types of gearing through all of which motion is transmitted). No case.

Gearing for stopping and starting machinery. 65720.

Gearing, toothed and friction. 65248, 65249, 65546.

Gearing, variable speed, differential and reversing. 63275, 63551, 64393, 65552, 66192.

Link work, cams, tappet and ratchet and like gearing. No case.

Mechanism not otherwise provided for. 62884, 64169, 65258, 65492, 65536, 65658.

oscillating props for machine parts, *see* Mechanism, etc.

shafts, *see* counter shafts, etc.

vibrators, hydraulic, *see* Hydraulic Presses, etc.

MEDICAL AND SURGICAL APPLIANCES. XIX(2).

an ultra short wave therapeutic apparatus for administering therapeutical treatment, *see* Electric, etc.

Bandage, dressings, pads, plasters and adhesive bandages and catamenial appliances. 63578, 64149, 64261, 64579, 65411, 65412, 65447.

blood pressure measuring apparatus, *see* Miscellaneous.

Deformity, fracture and like appliances, surgical and artificial limbs and trusses. 65566.

Dental operating appliances and instruments. No case.

Ear instruments and hearing appliances (including stethoscopes). No case.

Electric and magnetic appliances. 64743, 66217.

Medicines, administering (including syringes, pumps and like appliances). 63866.

Miscellaneous. 63178, 63358, 63577, 63925, 63956, 65358, 65924, 66018, 66097, 66217.

packaging sterilized material, *see* Miscellaneous.

Pessaries, surgical and suppositories and rectal appliances. No case.

Respiratory appliances. 63511.

Stands, trays and like supports. No case.

surgical fibrous absorbent products, *see* Bandages, etc.

Surgical operating appliances including optical instruments, surgical. 64051, 65358.

surgical sponge material, *see* Bandages, etc.

Metal desurfacing or removal by electric arc, *see* METAL WORKING.

Metal flake obtaining by rolling, *see* METAL WORKING.

Metal salts, *see* CHEMICAL COMPOUNDS, ETC.

METAL WORKING. XXXV.

arc cutting devices, *see* Miscellaneous.

automatic control machine tools, *see* Miscellaneous.

Bending. 62743, 62950, 63681, 65540.

cutting metals, *see* Miscellaneous.

Drawing. 63691, 64143, 66047.

METAL WORKING—contd.

Drilling. 64228, 64645.

extruding metal presses, devices for, *see* Miscellaneous.

Fluxes for metal working purposes. 63622, 64143, 64476, 65183.

Forging. 65260.

lathes, *see* Turning, etc.

looping strip, *see* Bending.

marking of workpieces, *see* Miscellaneous.

metal flakes producing by rolling, *see* Rolling.

metal pipes and tubes making, *see* Miscellaneous.

method of making cutting elements by shearing & punch, *see* Shearing etc.

Milling. No case.

Miscellaneous. 62743, 62816, 62817, 62836, 62970, 63009, 63033, 63035, 63174, 63231, 63371, 63375, 63401, 63507, 63539, 63677, 63758, 63887, 63937, 64169, 64199, 64201, 64226, 64297, 64298, 64305, 64306, 64394, 64509, 64536, 64645, 65029, 65052, 65124, 65167, 65276, 65305, 65334, 65628, 65736, 65824, 65924, 66160, 66240.

Planing, shaping and slotting. No case.

Rivetting. 64468.

rolled sheets, separating individual, sheets for stack, *see* Rolling.

Rolling. 64280, 64496, 65513, 65887.

rolling mills, apparatus for, *see* Rolling.

Screwing and tapping. 65882.

Seaming. 63677.

shaping blank by forming, *see* Turning.

Shearing and punching. 64443.

Soldering. 63889.

Stamping and embossing. 62816.

tube bending machines, *see* Bending.

Turning. 63507, 63582, 64536, 65222, 65248, 65249, 65250.

Welding. 63033, 63375, 63401, 63447, 63406, 63575, 63808, 64143, 64199, 64200, 64230, 64306, 64435, 64466, 64476, 64602, 64968, 64969, 65029, 65114, 65182, 65299, 65649, 66056, 66069, 66124, 66151, 66171.

welding composition, *see* Welding, etc.

wire feeders for arc cutting, *see* Miscellaneous, etc.

wire feeders for arc, welding, *see* Welding, etc.

work support for metal working, *see* Miscellaneous.

work support for welding, *see* Welding.

Metallic carbonates, *see* CHEMICAL, ETC.

Metallic oxides, *see* CHEMICAL, ETC.

Metals, casting, *see* CASTING METAL.

METALS, EXTRACTING AND REFINING (EXCEPTING IRON AND STEEL MANUFACTURE AND ORES, TREATING). XXXIII(7).

(Process and apparatus for obtaining oxides, hydrates, oxyacids and salts from which metal is stated to be obtained by unspecified or by known methods are indexed only under CHEMICAL COMPOUNDS, etc. Steps in processes for the treatment of res involving improvements in connection with drying, grinding, mixing, roasting, sifting and washing are indexed under headings denoting such operations.)

Amalgamating and extracting metals by mercury. 64406.

METALS, ETC.—contd.

- crucibles and melting pots, *see* Miscellaneous.
- Cyaniding. 63116.
- Distilling. 62807, 63514, 64810, 65545, 66031.
- Dry processes of extraction, other than distilling and refining. 63156, 63198, 64033, 64810, 65336, 65588, 66031.
- Liquating. No case.
- Miscellaneous. 62808, 63284, 63789, 64891, 65020, 65037.
- ores, reducing by solid, reducing agents and heating by gases, *see* Dry processes, etc.
- Refining (including recovering tin and other metals from scrap but excluding processes which form part of extraction). 63775, 64266, 64893, 65437, 66050.
- Thermo-aluminic and like mixtures and metals extracting processes. No case.
- Wet processes (other than cyaniding and amalgamating). 64040, 65020, 65022, 65024, 65588.
- Metals extruding, *see* METAL WORKING.
- Method of cleaning, glass sheets, *see* GLASS MANUFACTURE.
- Method of operating two-stroke hot bulb internal combustion engine, *see* INTERNAL, ETC.
- Mineral oils, destructive hydrogenative of, *see* DISTILLING, ETC.
- Mineral wool, *see* GLASS, ETC.

MINING, QUARRYING AND WELL SINKING. XXVIII(3).

- Boreholes, wells, shafts and tunnels—
 - Linings, tubings and the like. No case.
 - Miscellaneous—
 - Roof support. 64216.
 - Wells (other than linings). 63686.
- Boring earth and rock—
 - Cores, rods and tubes, extracting and the like. 64973.
 - Drills, other than rotary. 63138, 64320, 65004.
 - Miscellaneous, 65333, 64486, 66259.
 - Rotary drills. 64546, 64547, 64652.
- hydraulic mining, *see* Excavating.
- impact type quarry digging tools, *see* Boring etc. (Drills others, etc.)
- Mines and quarries. No case.
- Mixers, concrete, *see* MIXING, ETC.

MIXING AND AGITATING MACHINES AND APPLIANCES. XXXIV(3).

- (Mixing and agitating apparatus of interest only as a part of apparatus for other purposes is indexed only under heading for such apparatus.)*
- This heading does not include CENTRIFUGAL MACHINES; INJECTORS; Carburettors (INTERNAL COMBUSTION ENGINES); SPRAY PRODUCES; and VALVES.*
- Batch mixers i.e., non-continuous discharge apparatus for solid and liquid materials—
 - Moving containers. 62799.
 - Stationary containers. 65190, 65634.

MIXING AND AGITATING MACHINES AND APPLIANCES—contd.

Continuous discharge apparatus—

Moving containers. No case.

Stationary containers. 63853, 64721.

Miscellaneous. 65273.

Mixing fluids or solids with fluids in proportionate quantities. 63411, 64116, 65627.

Mixing apparatus for liquids, *see* MIXING, ETC.

Mold for binding glass sheets, *see* GLASS, ETC.

Molluscicidal compositions, *see* DISINFECTING, ETC.

Monoazodyes, *see* CARBON COMPOUNDS, ETC.

Monolithic structure, *see* BUILDINGS, ETC.

Morphine derivatives, *see* CARBON COMPOUNDS, ETC.

Morphinane derivatives, *see* CARBON COMPOUNDS, ETC.

Mortar, concrete & prefabricated elements, *see* CEMENT, ETC.

MOTOR CONTROL SYSTEMS AND MOTOR AND LIKE CONTROLLERS, ELECTRIC. LIX(3).

control equipments for electric motor traction devices, *see* Motor controlling, etc.

controllers, *see* Starters, etc.

Motor controlling systems (other than construction of regulators).

63058, 63403, 63600, 63746, 63896, 63897, 63898, 64121, 64228, 64506, 64645, 64823, 64833, 65066, 65067, 65068, 65130, 65228, 65345, 65703, 65849, 65998.

regulating or controlling speed of fans, by semi-conductor switching devices, *see* Motor controlling, etc.

speed regulators for electric motors, *see* Starters, etc.

Starters and regulators, construction of. 62951, 62972, 63651, 65239, 65240.

Motor fuel additives, *see* FUEL, ETC.

MOTOR VEHICLES. LII(1).

Arrangement and disposition of parts, not otherwise provided for. 65919, 65920.

clutches for motor vehicles construction of, *see* Mechanism, Miscellaneous.

Driving, transmission, balance and reversing gearing, arrangement and disposition of. 63826, 64236, 64278, 65259, 65582, 65720.

Frames and under carriage work. 62787, 64150.

gear-changing devices, *see* Driving, etc.

governors for electric motor control systems, *see* Governors, etc.

motor vehicle suspensions, *see* Frames, etc.

Steering and controlling. 63826, 63975, 64277, 64524, 65918, 65920.

Motors, electric, *see* DYNAMO, ELECTRIC, ETC.

MOTORS (MISCELLANEOUS). LXV(2).

(This heading includes animal power engines and miscellaneous types of motors such as self-driving machines; spring, weight and momentum power storing apparatus; and motors operated by variations in atmospheric temperature. Windmills and wind motors are indexed under TURBINES.)

63398, 64818, 64819, 65473, 65913.

Moulding compositions, thermoplastic, *see* 'PLASTIC, ETC.

Moulding machines, *see* MOULDING, ETC.

MOULDING PLASTIC AND POWDERED SUBSTANCES. XIII.

apparatus and process for the manufacture of fibres from thermoplastic material, *see* Miscellaneous, etc.

apparatus for die casting under vacuum, *see* Casting, etc.

block or brick-making apparatus, piston operated, *see* Spreading, etc.

Casting with non-metallic liquids or flowing paste. 62853, 63312, 63886.

Centrifugal and rotary machines for moulding (including other machines and process for making pipes and tubes). 62965, 64100.

extending, *see* Extension, etc.

Extrusion machines. 62986, 63038, 63073, 63219, 63486, 64197, 64349, 64427, 64570, 64710, 65126, 65423.

forming and moulding a valve plug in the wall of a tyre, *see* Wheel tyres.

India rubber, processes and apparatus for moulding, not covered by other subdivisions. 64251.

joining two parts of thermoplastic materials, *see* Miscellaneous.

Miscellaneous processes and apparatus.

62747, 62981, 62986, 63021, 63286, 63359, 63491, 63581, 63693, 63734, 63816, 64122, 64197, 64272, 64433, 64764, 65057, 65151, 65168, 65263, 65289, 65320, 65423, 65538, 65618, 65855, 65868, 65877, 65895, 66028.

Moulds. 63323, 63561, 63759, 63903.

pellet, making, *see* Miscellaneous, etc.

pelletizing finely divided pigment, *see* Miscellaneous, etc.

Phonograph records, processes and apparatus for not covered by other sub-divisions. 64710, 65604.

polypropylene shaped article producing, *see* Miscellaneous, etc.

Presses, mechanical. 63816, 64274, 64484.

Pulp, process and apparatus for moulding not covered by other sub-divisions. 65652, 66043.

repairing thermoplastic materials, *see* Miscellaneous.

rice product extrusion apparatus for, *see* Extrusion machines.

Shaking, jiggling and tamping machines. 62917.

shaped bodies from carbide bounded graphite, *see* Miscellaneous, etc.

Shaping by rollers. 63479.

sheets of polymeric material produced by rolling, *see* Shaping, etc.

slush moulding from gelable liquid, *see* Miscellaneous, etc.

Spreading by pressure against moving or fixed formers (plunger-operated). 62946, 64274, 64710.

tablet making machine, *see* Miscellaneous.

tablets medicinal making, *see* Miscellaneous, etc.

Wheel tyres (process and apparatus for making not covered by other subdivisions). 63508, 64509, 64510, 63716, 64572.

Moulds for welding, method of making, etc., *see* CASTING METALS.

Mucic derivatives, *see* CARBON COMPOUNDS, ETC.

Multic colour printing machine, *see* PRINTING.

Multi-stage self-suction type centrifugal pump, *see* CENTRIFUGAL, ETC.

Multiply-polyethylene structure and aminated fabrics, *see* PROOFING, ETC.

MUSIC AND MUSICAL INSTRUMENTS. LX(2).

- Miscellaneous musical instruments. No case.
- Music. No case.
- Organs, harmoniums. 65838.
- Pianos. No case.
- Stringed instruments (excepting pianos). No case.
- Time indicators, musical. No case.
- Wind instruments (excepting organs and like). No case.

N

NAILS, HOOKS, COTTERS, PINS, STAPLE WEDGES AND WOOD SCREWS. LXIV(6).

- Cotters, gibs and pins for cottering. No case.
- Hooks. No case.
- Miscellaneous. No case.
- Nailing, stapling and wire-stitching. No case.
- Nails, spikes, tacks and woodscrews. No case.
- Wedges. No case.
- Naphtho hydroquinone phosphate, *see* CARBON COMPOUNDS, ETC.
- Nicotinacid, purifying, *see* CARBON COMPOUNDS, ETC.
- Nitrosylryl sulphonic acid compounds, *see* CARBON COMPOUNDS, ETC.

NON-METALLIC ELEMENTS. IV(2).

- Carbon, charcoal and graphite. 62938, 65049, 65122, 65696.
- Elements other than carbon, halogens, hydrogen, nitrogen, oxygen and sulphur. 63326, 65981.
- Halogens. 64327, 65646.
- Hydrogen. 64327, 65989, 66065.
- Nitrogen. No case.
- Oxygen and ozone. No case.
- silica, *see* Elements, etc.
- Sulphur. 64040.
- Non-ionic antibiotic, *see* DISINFECTING, ETC.
- Nozzle assembly for turbines, *see* TURBINES, ETC.
- Nut hulling, husking or decorticatin,, *see* GRAINS, ETC.

O

- Oleandomycin esters, *see* CARBON COMPOUNDS, ETC.

OILS AND LUBRICANTS. XI(2).

(Steps in processes for the production of oils involving improvements in connection with cooling, distilling, filtering heating and mixing are indexed under headings denoting such operations.)

lubricating compositions, *see* Lubricants. (Lubricants for machinery).

Lubricants—

Lubricants for fibers and unclassified. 63875.

Lubricants for machinery. 62974, 63287, 63687, 63702, 63823, 64104, 64105, 64164, 64165, 64166, 64167, 64212, 64620, 64920, 64921, 64923, 65038, 66044, 64123.

OILS AND LUBRICANTS—contd.

- Oils (excepting fats and fatty oils and oils for fuel and motive power purposes and lubricants)—
- Compositions and modified oils (other than for lubricating). 64212, 64620.
- Extracting. No case.
- Purifying. 62941, 62942, 63119, 63554, 66100.
- Oils vegetable, extracting, *see* **FATS, ETC.**
- Openers for bottle capsules, *see* **STOPPERING, ETC.**
- Operating circuits for electric discharge lamps, *see* **ELECTRIC SUPPLY, ETC.**
- Ores, agglomerating, *see* **ORES SLIMES, ETC.**
- Ores, reducing or extracting metals from, *see* **METAL EXTRACTING, ETC.**

ORES, SLIMES AND MINERAL RESIDUES, TREATING (BRIQUETTING, CHLORINATING, ROASTING AND LIKE PROCESSES). XXXIII(8).

(This heading is not exhaustive of all processes of treating ores, but is limited to processes as defined by the terms of the sub-headings.)

Briquetting and other agglomerating processes.

64671, 64895, 65619, 66256.

Chlorinating, chloridising and like processes. No case.

Deoxidising, dephosphorising processes for removing undesired constituents from ores, prior to extraction.

64307, 65174, 65336.

Miscellaneous—

Treating to facilitate flotation and like processes. 64867.

Open-pan roasting and sintering processes and apparatus. 63222.

Sulphatising, sulphidising processes. No case.

treating to facilitate flotation and like processes, *see* Miscellaneous.

Organism noxious, combating compositions for, *see* **DISINFECTING, ETC.**

Organometallic compounds, *see* **CARBON COMPOUNDS, ETC.**

ORNAMENTING. LXVI(6).

63605.

Ovens or kilns, *see* **FURNACES, ETC.**

Overhead conductors supporting, *see* **CONDUCTORS.**

Oxazines, *see* **CARBON COMPOUNDS, ETC.**

Oxygen, administering, *see* **MEDICAL, ETC.**

P

Package containing surgical sutures, *see* **PACKING AND BALING.**

Package for polyamide yarn, *see* **CELLULOSE, ETC.**

Packages, *see* **PACKING, ETC.**

PACKING AND BALING. XL(5).

Baling presses. No case.

Bales. No case.

Bale-ties, bale-tie fasteners and strainers (wire, cord, strap and rod type). No case.

bottles, carrying in crates machines for, *see* **Lifting, etc.**

package containing surgical sutures, *see* **Packing and drafting, etc.**

PACKING, ETC.—contd.

Packing and wrapping up for transit and storage—

Articles packeting singly or collectively in formed receptacles (including preliminary assembly and arrangement). 62862, 63484, 65310.

Granular, plastic and powdered materials, packeting in formed receptacles. 64124.

Materials and goods making up into special packages and parcels. 63082, 63795, 66215.

Miscellaneous. 64648, 65673.

Packeting by wrapping up in bags, sheets and blanks. 63577, 63925.

Parcelling by bundling, machines and apparatus for. No case.

plants for mechanically handling and stacking materials, see Lifting, etc.

Unpacking. No case.

Paints, see PAINTS, ETC.

PAINTS, PAINTING AND THE LIKE. XII(3).

(This heading does not include BITUMINOUS EMULSIONS ; PLASTIC COMPOSITIONS ; polishing compositions for furniture (see SOAPS, ETC.) and enamels and glazes (see GLASS MANUFACTURE).)

anticorrosive coating compositions containing fats, see Paints, Varnishes, etc. (Paints containing, etc.)

Coating and painting surfaces (other than those of continuous lengths of flexible materials in open condition). 63365, 63535, 63667, 65450, 66019, 66061.

Coating compositions, non-drying and non-setting and compositions applied melted. No case.

Luminous paints and compositions. 65477.

Paints and varnishes, removing. 66242.

Paints, varnishes and other coating compositions, drying by exposure other than luminous paints—

Distempers and water paints. 64771, 65925.

Miscellaneous. 65453.

Paints containing carbohydrates, cellulose, and India rubber and like gums. No case.

Paints containing oils, fats, soaps and resins (natural and synthetic) and waxes. 63043, 63194, 63433, 63483, 63535, 63766, 63856, 64180, 64578, 65867, 65910.

Paints (other than distempers) containing asphalts, bitumens, tars and pitches. No case.

Pigments. 64464, 66204.

pigments pelletizing of, see Moulding, etc.

PAPER. XXIV(4).

digesters and like closed boilers for preparing pulp, see PAPER.

Materials, fibrous. 62879.

Miscellaneous. 62983, 63658, 65477, 66043.

Paper, boards and compound paper. 64062, 65652, 66043.

paper sticks for lollipops, see Miscellaneous.

Paper-machines and paper-forming apparatus. 63066, 63067, 63289, 63612, 65513, 66261, 66262, 66263.

process and apparatus for treatment of paper pulp, see Pulp, etc. (Apparatus, etc.).

PAPER—contd.

Pulp, preparation of—

Apparatus (including pulping engines). 63144, 63146, 63147, 63148, 63330, 63624.

Processes using alkali. 63027, 63330, 64184, 64827.

Processes using substance other than alkalis. 62964, 63027, 63085, 63636, 64827.

pulp treating with acid to reserve silica, *see* Pulp, etc. (Processes using substances, etc.)

pulp, treatment with alkali, *see* Pulp, etc. (Processes, etc.)

pulp, treatment with chlorinic, *see* Pulp, etc. (Processes, etc., Other than, etc.)

shinking machines for paper, *see* Paper machines.

Waste products, treatment and utilisation of. No case.

Paper feeding apparatus, *see* WEBS, ETC.

Paper pulp, bleaching of, *see* DYEING, ETC.

Paper pulp treatment, *see* PAPER.

Party line systems, telephones, *see* TELEPHONES, ETC.

Pellet making apparatus, *see* MOULDING, ETC.

Pellet making or granulating, *see* GRANULATING, ETC.

Pelletizing finely divided pigments, *see* MOULDING, ETC.

Penicillin, *see* CARBON COMPOUNDS, ETC.

Penicillin preparation of, *see* CARBON COMPOUNDS, ETC. (DISINFECTING, ETC.)

Peptides, *see* CARBON COMPOUNDS, ETC.

Percolation testing equipment, *see* GAUGES, ETC.

Percussion drills, *see* MINING, ETC.

Persulphates, *see* CHEMICAL COMPOUNDS, ETC.

Pesticidal carrier, *see* DISINFECTING, ETC.

Pharmaceutical compositions, *see* DISINFECTING, ETC.

Pharmaceutical preparations, *see* DISINFECTING, ETC.

Phenothiazine derivatives, *see* CARBON COMPOUNDS, ETC.

Phenothiazines, *see* CARBON COMPOUNDS, ETC.

Phenoxazine derivatives, *see* CARBON COMPOUNDS, ETC.

Phenthiazine derivatives, *see* CARBON COMPOUNDS, ETC.

Pheny-nitro propandiols, *see* CARBON COMPOUNDS, ETC.

PHILOSOPHICAL INSTRUMENTS. XXXVIII(2).

(This heading includes surveying, navigational, astronomical instruments, and thermometers, meteorological and mathematical instruments and miscellaneous physical apparatus.)

Angles, measuring levels, plumb rules and like. 64626.

Mathematical drawing appliances. No case.

Miscellaneous philosophical instruments—

Compress box. 64626.

Radiation measuring by electric cells. 64281.

PHILOSOPHICAL INSTRUMENTS—contd.

Optical apparatus—

Miscellaneous. 65611, 65717.

Projection apparatus, optical. 64686, 65342.

Systems or combinations of refracting and reflecting elements. No case.
projection screens, *see* Optical, etc. (Projection, etc.)

Thermometers and pyrometers. No case.

Phonograph records moulding, *see* MOULDING, ETC.

PHONOGRAPHS AND LIKE SOUND RECORDING AND REPRODUCING INSTRUMENTS. LX(3).

(This heading does not include sound measuring and locating.)

Cases and stands. No case.

driving gramophone records, apparatus for, *see* Driving, etc.

Driving, speed regulating and indicating, starting and stopping. 64714.

Electric and magnetic machines, general design of. 62755, 63102, 64584, 64670, 64848, 65285, 65286, 65692.

magnetic heads for sound recording and reproduction, *see* Electric, etc.

magnetic recording apparatus, *see* Electric, etc.

magnetic sound recording system, *see* Electric, etc.

Mandrels and turntables. No case.

Miscellaneous. No case.

mounting arrangements for transducer head assemblies associated with magnetic recording equipment, *see* Electric, etc.

Multiple machines, mechanical, general design of. No case.

multiple selection electric record players, *see* Electric, etc.

Optical systems of recording. No case.

Records, mechanical. 64550, 65602.

Sound boxes. No case.

Sound magnifying, modifying and directing appliances. No case.

sound recovering and reproducing magnetically, *see* Electric, etc.

Tone arms. No case.

Working in association with cinematographs and musical instruments.

(Includes only systems or combinations of apparatus. Specified types of apparatus are indexed under various headings for such apparatus.)

No case.

Phosphate esters, *see* CARBON COMPOUNDS, ETC.

Phosphors or luminescent materials, *see* LUMINESCENT, ETC.

PHOTOGRAPHY. XXXVIII(3).

Automatic and coinfreed apparatus for taking and finishing photographs.
No case.

Cameras (including shutters). No case.

Cinematograph picture films and lantern slides. 65796.

Colour photography. 63300, 63607, 65348, 65349.

Dark rooms, studios and studio accessories. No case.

Developing and other chemical treatment (other than apparatus). 63757, 65406.

PHOTOGRAPHY—contd.

- Enlarging, copying and reducing. 65342, 65348
- light-sensitive emulsion, *see* Plates, etc. papers
- Miscellaneous. 63956, 64106.
- Photographic type composing. No case.
- Photo-mechanical printing surfaces producing. 63495.
- Plates and films, auxiliary holders for (separate from camera). No case.
- Plates, films and papers. 64449.
- Printing, apparatus for. 63757.
- Surveying, aeronautical, panoramic photography. No case.
- Trays, dishes and apparatus for developing, fixing, washing, etc. 65342.
- Phthalocyanine derivatives, *see* CARBON COMPOUNDS, ETC.
- Phthalocyanines pigments, *see* CARBON COMPOUNDS, ETC.
- Pickling and cleaning metals, *see* INCRUSTATION, ETC.
- Picture, photograph and like mounts, *see* BOOKS, ETC.
- Pigments, *see* Paints.
- Pigments dyeing of textiles, *see* DYEING, ETC.
- Pigments finely divided, pelletizing of, *see* MOULDING, ETC.

PILES AND PILE DRIVING. XXVIII(4).

- Concrete piles, other than piles made by driving preparatory piles or shells.
No case.
- Driving and withdrawing. No case.
- Hoops, caps, saddles, shoes and screw-points. No case.
- Miscellaneous. No case.
- Piles made by driving preparatory piles or shells. No case.
- Sheet and other metal piling. No case.
- Pills, tablets and like medicinal, *see* DISINFECTING, ETC.
- Pin cards, *see* LOOMS, ETC.

PIPE-JOINTS AND LIKE COUPLINGS. XLVIII(1).

(This heading does not include wire and rod couplings for which *see* ELECTRIC COUPLINGS.)

- Angle pieces, bends, crosses, elbows, tees and like junction pieces. 64635, 65540.
- Ball and swivel joints. 64934.
- Couplings, hose and disconnectible. 62933, 63204, 63748, 63784, 64241, 64365, 64635, 65291, 65978.
- end fitting for plastic tube, *see* Miscellaneous.
- Formed by molten metal and by welding. 65952.
- Joints, other than easily removable, packed or welded. 63464, 64100, 64126, 64262, 65741.
- Joints, packed and caulked. 62935, 63440, 65225, 65917, 65978.
- joint making packing, *see* STEAM ENGINES.
- Miscellaneous—
 - End fitting for plastic tubes. 65050.
 - Sealing rings for pipe joints. 65978.
 - spigot and socket joints with packing; *see* Joints, packed, etc.
 - spigot and socket joints without packing, *see* Joints other than, etc.

PIPE-JOINTS, ETC.—contd.

Plates, walls and other plane surfaces, joining tubes to. No case.
 spigot and socket joints with packing, see Joints packet, etc.
 thread couplings, for plastic pipes, see Coupling, etc.
 wire and rod couplings; see Electric Couplings.

Piperazine derivatives, see CARBON COMPOUNDS, ETC.

Piperidine derivatives, see CARBON COMPOUNDS, ETC.

Piperidines, see CARBON COMPOUNDS, ETC.

PIPES AND TUBES. XLVIII(2).

Cement and like pipes and tubes. 65018.

Cleaning. 64653.

cradle for cable reel or drum, see Miscellaneous.

Hoses and other flexible pipes (including non-flexible, India rubber, gutta percha and leather pipes). 63078, 63204, 64428, 64718, 65615.

Metal pipes and tubes. 63937, 64143, 64297, 64777, 66171.

Miscellaneous. 63797, 64275.

Pipes and tubes, not otherwise provided for. 63204.

plastic tubes, bath for heating, see Heating Systems, etc.

Repairing, stopping leakages in and supporting pipes. No case.

Pipes and tubes, metal, making, see METAL WORKING.

Piston construction, see STEAM ENGINE, ETC.

Pistons for internal combustion engines, see STEAM ENGINES, ETC.

Plant hybridizing composition, see MANURES, ETC.

Plastering compositions, see CEMENTS, ETC.

PLASTIC COMPOSITIONS. XII(2).

(This heading comprises mouldable compositions which usually set, compositions containing bitumen, resins, fats, oils and waxes and organic derivatives as important constituents are indexed here. India rubber compositions are indexed under INDIA RUBBER. Steps in processes for the production of plastic compositions involving improvements in connection with drying, emulsifying, grinding, crushing and pulverising; mixing, and testing physical qualities are indexed under headings denoting such operations.)

Albumen, casein cellulose, dextrine, gelatine, glue, molasses, starch and sugar compositions, but not containing constituents stated (below). No case.

Bituminous compositions. 65910.

Compositions containing clay, cement, porcelain and like, but not containing constituents stated above. 62723, 65280.

Oils, fats, higher fatty acids, soaps and condensates from tar distillation compositions containing, but not bitumen, or resins, gums and waxes. 63588.

Resins, resinsates, gums and waxes containing but not bitumen. 62851, 62855, 62899, 62935, 62982, 63136, 63139, 63245, 63400, 63433, 63491, 63587, 63694, 63699, 63727, 63800, 63820, 63856, 63858, 63867, 64017, 64022, 64255, 64272, 64312, 64378, 64385, 64403, 64520, 64540, 64568, 64689, 64710, 64764, 64773, 64987, 64999, 65000, 65289, 65315, 65430, 65457, 65617, 65678, 65786, 65897, 65898, 65910, 65973, 66126.

Unclassified compositions. 63800.

Plastic materials texturing by moulding, see MOULDING, ETC.

Plating metals otherwise than by electro-deposition, see TINNING, ETC.

PLASTIC, ETC.—contd.

Pliers to engage holes in split rings, *see* HAND TOOLS.
 Ploughing machines, *see* AGRICULTURE, ETC.
 Plugs, sockets, electric, *see* ELECTRIC COUPLINGS, ETC.
 Pneumatic tyre cases, *see* WHEELS, ETC.
 Pneumatic tyre manufacture, *see* WHEELS & TYRES, ETC.
 Pneumatic tyres, *see* WHEELS, ETC.
 Podophyllic acid amides, *see* CARBON COMPOUNDS, ETC.
 Podophyllum glucosides solution, *see* DISINFECTING, ETC.

POLISHING, SHARPENING AND ABRADING (OTHER THAN COMPOSITIONS). XLIII(3).

(This heading does not include polishing of grains and seeds (see GRAINS, ETC.); cleaning and polishing knives, forks after use (see WASHING BUILDINGS, ETC.); milling and filing metals (see METAL WORKING); cutting and working stone (see STONE CUTTING, ETC.); polishing compositions for furniture and boots (SOAPS, ETC.)

62800, 63388, 63842, 64494, 65812.

Polyamide compositions for spinning, *see* CELLULOSE, ETC.
 Polyamides, *see* CARBON COMPOUNDS, ETC.
 Polymers, *see* CARBON COMPOUNDS, ETC.
 Polyesters preparation of, *see* CARBON COMPOUNDS, ETC.
 Polyethylene, *see* CARBON COMPOUNDS, ETC.
 Polyethylene film composition *see* CELLULOSE, ETC.
 Polymer compositions, *see* PLASTIC, ETC.
 Polymer solution, *see* CARBON COMPOUNDS, ETC.
 Polymerisation, *see* CARBON COMPOUNDS, ETC.
 Polymerisation of ethylene, *see* CARBON COMPOUNDS, ETC.
 Polymerisation of ethylenically unsaturated compounds, *see* CARBON COMPOUNDS, ETC.
 Polymerisation of organic compounds, *see* CARBON COMPOUNDS, ETC.
 Polymerisation of unsaturated organic compounds, *see* CARBON COMPOUNDS, ETC.
 Polymerisation of ethylene, *see* CARBON COMPOUNDS, ETC.
 Polymerisation products organic, *see* CARBON COMPOUNDS, ETC.
 Polymers, *see* CARBON COMPOUNDS, ETC.
 Polymers, treatment of, *see* CARBON COMPOUNDS, ETC.
 Polymers treating to purify the same, *see* CARBON COMPOUNDS, ETC.
 Polyolefin composition, *see* PLASTIC COMPOSITIONS, ETC.
 Polyolefin moulding compositions, *see* PLASTIC, ETC.
 Polyolefins, *see* CARBON COMPOUNDS, ETC.
 Polypeptides, *see* CARBON COMPOUNDS, ETC.
 Polyvinyl chloride, *see* CARBON COMPOUNDS, ETC.
 Polyvinyl chloride composition, *see* PLASTIC COMPOSITIONS, ETC.
 Polysilicates, organic, *see* CARBON COMPOUNDS, ETC.
 Polyurathane products, *see* CARBON COMPOUNDS, ETC.
 Polyurethane, *see* CARBON COMPOUNDS, ETC.
 Potentiometer, for use in connection with weighing apparatus, *see* WEIGHING ETC.

- Pioneer plant internal combustion engine, *see* INTERNAL, ETC.
- Powder made of small glass particles, *see* GLASS, ETC.
- Prefabricated buildings, *see* BUILDINGS, ETC.
- Pregnanes, *see* CARBON COMPOUNDS, ETC.
- Pregnane derivatives, *see* CARBON COMPOUNDS, ETC.
- Pregnam esters, *see* CARBON COMPOUNDS, ETC.
- Pregnanolone compounds, *see* CARBON COMPOUNDS, ETC.
- Preparation of shaped articles from high molecular with highly crystalline polypropylene, *see* MOULDING, ETC.
- Preparations of tea or coffee, *see* TEA, ETC.
- Preserving animal and ragisable substances *see* FOOD, ETC.
- Preserving food, *see* FOOD, ETC.
- Presses for making tablets of soap, *see* MOULDING, ETC.
- Presses for metal working, *see* METAL WORKING.
- Pre-stressed reinforced concrete, *see* BUILDINGS, ETC.
- Pretensioning and anchoring of prestressed concrete, *see* BUILDINGS, ETC.
- Princking machine for pulses, *see* GRAINS, ETC.
- Primary cells, *see* BATTERIES, ETC.
- Printers' inking rollers, *see* PRINTING.

PRINTING. XXXVII(1).

(*Excepting* PHOTOGRAPHY ; TYPEWRITERS).

address printing machine, *see* Miscellaneous.

Configuration of types, faces, quads, spaces and printing and embossing surfaces. 64774.

Embossed printing. 65513.

Etching and engraving. 63495, 63741, 63815, 64661.

fabric printing machine, *see* Textile, etc.

Miscellaneous. 63012, 63815, 64419, 64611, 64767, 65506.

Post-marking and franking machines. 65814.

Presses (including processes thereof) for printing. 63555, 64102, 64511, 64767, 65513, 65993, 66021.

printing machine, *see* Presses, etc.

stamping or marking flexible material with ink, *see* Miscellaneous.

Stencils, transfers and copying. 63453, 63454.

Textile printing. 62992, 63068, 63434, 63533, 63757, 63794, 63801, 63819, 63990, 64118, 64312, 64604, 64605, 64606, 64663, 64933, 65171, 65314, 65319, 65352, 65362, 65496, 65513, 65584, 65657, 66000, 66246.

Type making, setting and composing. No case.

Printing apparatus for statistical machine, *see* CALCULATING, ETC.

Printing fibres, *see* PRINTING.

Printing telegraph apparatus, *see* TELEGRAPHS, ETC.

Printing machine, *see* PRINTING.

Printing rollers, *see* PRINTING.

Process and apparatus for extrusion of thermoplastic material, *see* MOULDING PLASTIC, ETC.

Process of compounding rubber, *see* INDIA RUBBER, ETC.

PRINTING—contd.

Projectile fuses, and apparatus for setting, *see* AMMUNITION, ETC.

Projectiles, *see* AMMUNITION, ETC.

Projection screens, optical, *see* PHILOSOPHICAL, ETC.

PROOFING FABRICS AND PERMEABLE MATERIALS. XXIII.

adhesive tape, paper backed, *see* Fabrics, coated, etc.

Coating yarns, threads and webs with liquid and plastic materials, apparatus for and processes dependant on such apparatus. 63318, 63340, 63798, 63939, 64562, 64902, 65866, 66008, 66076, 66077, 66078.

composite sheet material, *see* Fabrics, compound, etc.

Fabrics, coated with liquid and plastic materials. 62737, 62939, 63318, 63340, 63633, 64149, 64312, 64560, 65177, 65565, 65804, 66076, 66077, 66078.

Fabrics composed of threads or fibrous materials united by adhesives. 62973, 64186, 64437, 64962.

Fabrics, compound and compound sheet materials. 62745, 63685, 63960, 64422, 64580, 65177, 65513, 65742, 65855, 65902, 66251.

Fabrics, miscellaneous. 64505.

polyalkylene fabrics coated with polyethylene film, *see* Fabrics, compound, etc.

Proofing permeable materials against air, bacteria, chemicals, fire, fungi, moisture and vermin (includes only impregnation and hot coating)—

Compositions and materials. 62896, 63380, 63766, 64302, 65207, 66076, 66077, 66078.

Processes. 62813, 63248, 63667, 64302, 65207, 65285, 65866, 66076, 66077, 66078, 66145.

tissue paper coated with an adhesive composition, *see* Fabrics, etc.

Process or grinders for expressing juice, *see* GRINDING, ETC.

Protection of ship's hulls, *see* SHIPS AND BOATS.

Protective arrangements other than those with automatic circuit breakers for safety switches, *see* ELECTRIC SUPPLY, ETC.

Protective clothing, *see* PROOFING, ETC.

Protective devices, *see* ELECTRIC, ETC.

Protein food powders, *see* FOOD PREPARING, ETC.

Pulp, bamboo, *see* PAPER.

Pulp for making sheet materials, synthetic, *see* CELLULOSE, ETC.

Pulp manufacture, *see* PAPER.

Pulp manufacturing, *see* PAPER.

Pulp, paper, *see* PAPER.

Pulp paper, synthetic, *see* PAPER.

Pulse generating apparatus, electric, *see* WIRELESS, ETC.

Pulverising solid material in pulverising mills, *see* GRINDING, ETC.

Pumping system, *see* PUMPS, ETC.

Pumps centrifugal, *see* CENTRIFUGAL AND SCREW, ETC.

Pumps gear, *see* ROTARY, ETC.

PUMPS, RECIPROCATING, FOR LIQUIDS. XLVII(3).

(This heading includes only constructional features of the pumps. Arrangements and adaptations of pumps in particular machines are indexed under headings denoting such machines.)

PUMPS, ETC.—contd.

Actuating, mechanism for. 64712, 64886, 65473, 66253.

Buckets and plungers, constructional details of. 64077, 64886.

cylinders, *see* General design.

delivery rate of pumps automatic means of regulating, *see* Regulating, etc.

diaphragm pumps, *see* General design, etc.

diaphragm pumps electromagnetic actuating device, *see* Actuating, etc.

fluid pumping system comprising plurality of pumps, *see* General, etc.

Framings and carriages for. No case.

General design of pumps (other than constructional details of specific parts like actuating mechanism, plungers, and valves). 62725, 63349, 63413, 64712, 66253.

Miscellaneous. No case.

Pipes, rising mains and delivery spouts. No case.

Regulating and controlling delivery. 62754, 64528.

Valve and valve seats, arrangement of. 62725.

Pumps, rotary, *see* ROTARY ENGINE, ETC.

Purification of sugar juice, *see* SUGAR.

Purifying sugarcane juice, *see* SUGAR.

Purifying sugar juices, *see* SUGAR.

Purifying water, *see* WATER, ETC., PURIFYING, ETC.

Pyrazile, *see* CARBON COMPOUNDS, ETC.

Pyrazine amides, *see* CARBON COMPOUNDS, ETC.

Pyrazoles are lines derivatives, *see* CARBON COMPOUNDS, ETC.

Pyrazolidine, *see* CARBON COMPOUNDS, ETC.

Pyrazolidine derivatives, *see* CARBON COMPOUNDS, ETC.

Pyrazolone derivatives, *see* CARBON COMPOUNDS, ETC.

Pyrazolopyrimidines, *see* CARBON COMPOUNDS, ETC.

Pyridazine derivatives, *see* CARBON COMPOUNDS, ETC.

Pyrimidines, *see* CARBON COMPOUNDS, ETC.

Pyrimidopyrimidines, *see* CARBON COMPOUNDS, ETC.

Pyrimidine derivatives, *see* CARBON COMPOUNDS, ETC.

Pyrolidine compounds, *see* CARBON COMPOUNDS, ETC.

Pyrazolopyrimidines, *see* CARBON COMPOUNDS, ETC.

Q

Quaternary ammonium compounds, *see* CARBON COMPOUNDS, ETC.

Quaternary compounds, *see* CARBON COMPOUNDS, ETC.

Quinoline derivatives, *see* CARBON COMPOUNDS, ETC.

Quinolone derivatives, *see* CARBON COMPOUNDS, ETC.

R

Radiation measuring electrically, *see* MEASURING, ETC.

RAILWAY AND TRAMWAY PERMANENT WAY AND SYSTEMS. L.

Crossings and points and switches for—

Crossings. No case.

Operating and controlling operation of points switches and movable parts of crossings. No case.

RAILWAY, ETC., PERMANENT WAY, ETC.—contd.

Crossings and points and switches for—contd.

Points. 64610.

Switches. 64610, 65209, 65979.

current collectors for electric trains or the like, *see* Electric, etc.

Derailers and car replacers. No case.

Electric railways (including electric traction) and other systems of railways and tramways (elevated, rope, pneumatic, track propulsion and like). 62910, 63077, 63107, 64610, 65209, 65228, 65345, 65845, 65875, 66130, 66173.

monorail systems, *see* Electric, etc.

Permanent way—

Chair-keys or wedges. No case.

Chairs. No case.

Miscellaneous. No case.

Rail joints. 65229, 66080, 66081.

Rails, construction of. 65127.

Sleepers—

Composite and compound (including stone, glass and like and rail securing means special thereto). 65877.

Metal. No case.

Rails, securing to sleepers (other than means special to composite and wood sleepers). 62998, 65748, 65992, 66172.

Wood. No case.

points, *see* Crossings, etc. (Points).

Stops fixed to permanent way. 65748.

switches, *see* Crossings, etc. (Switches).

Turntables and traversers. 65504.

RAILWAY AND TRAMWAY VEHICLES, BODY DETAILS BUFFERS AND COUPLINGS AND UNDERCARRIAGES OF. LII(2).

automatic entire buffer couplings, *see* Buffers, etc. (Couplings).

bodies of vehicles mounting on vehicles, *see* Miscellaneous.

Body details (including the general design of various types of bodies). 63053, 63237, 65258, 65393, 66225.

Buffers, draw gear and means for lessening shock (other than construction of springs and cushions)—

Buffers, construction of. 63969, 65253, 65554.

Combined buffer and draw gear. No case.

Draw gear (other than combined buffer and draw gear). 63646.

Couplings—

Automatic. 63155, 63584, 64151, 64565, 65253, 65254, 65510, 65511, 65749, 65750.

Non-automatic. 62835, 63444, 64291, 64559, 65749, 65750.

floors for railway vehicles, *see* Body, etc.

means mounted on railway vehicles, *see* BRAKES, ETC.

Miscellaneous—

Body mounting. 62727.

Suspensions for axle driven auxiliary apparatus. 65311.

rotatably connected coupling, *see* Couplings, (Automatic).

RAILWAY AND TRAMWAY VEHICLES, ETC.—contd.

Undercarriages and underframes, details of—

Axles. No case.

Frame construction. 64003, 64662.

Springs, arrangement of and mounting bodies on. 62727, 63845, 63872, 65258.

Wheels and axles, arrangement of. 63154, 63872, 64662, 65821.

Railway brakes, fluid actuated, *see* BRAKES, ETC.

Railway car truck, *see* RAILWAY, ETC. (BODY, ETC.).

Railway car truck brake arrangements, *see* BRAKES, ETC.

Railway vehicles, *see* RAILWAY, ETC. (BODY, ETC.).

RAILWAY SIGNALS AND COMMUNICATING APPARATUS. LI(3).

Controlling traffic on, staff, tablet and ticket systems for (including stopping trains independently of drivers). No case.

Hand levers and hand gearing (other than interlocking). No case.

Indicating condition of bridges, tunnels, permanent way and clearance for sidings and crossings. 62919, 63028, 63970.

Indicators and like cabin apparatus for indicating setting of signals. No case.

Interlocking apparatus and apparatus for controlling and locking signals. No case.

Miscellaneous. 64996.

Recording signals and indicating and recording movements and speeds on trains. 62919, 63028, 63970.

Rods and wires for operating points and signalling apparatus and wire and rod compensators. No case.

Signalling instruments. No case.

Signalling systems (other than interlocking systems). 62822, 63689, 64996.

Signalling to and communicating between trains and on trains. No case.

Stopping and starting trains independently of driver and of track apparatus for interaction with moving trains. 65559.

Track apparatus for interactions with moving trains. 64507, 64996.

Visible and audible signals (including lamp signals). No case.

block signalling systems, *see* Signalling system, etc.

reversers, signal, *see* Interlocking, etc.

Ramming ballast apparatus for, *see* MOULDING PLASTIC, ETC.

Reacting an isocyanate with a sulphonamide, *see* CARBON COMPOUNDS, ETC.

Receiving systems wireless, *see* WIRELESS, ETC.

Reciprocating action liquid pumps, *see* PUMPS, RECIPROCATING, ETC.

Reciprocating pumps, *see* PUMPS, ETC.

Reciprocating pumps for liquids, *see* PUMPS, ETC.

Receiving apparatus wireless, *see* WIRELESS, ETC.

Recording mechanism for producing charts, *see* INDICATING, ETC.

Recording sound, *see* PHONOGRAPHS, ETC.

Records, gramophone, *see* PHONOGRAPHS, ETC.

Rectifying alternating currents, *see* ELECTRIC CURRENTS CONVERTING.

Refining sugarcane wax, *see* WAXES, ETC.

Reflections for lamps, *see* LAMP, ETC.

Refractories, *see* CEMENTS, ETC.

RAILWAY SIGNALS, ETC.—contd.

- Refractory or heat resistance composition for furnaces, *see* CEMENT, ETC.
Refrigerating systems, *see* COOLING, ETC.
Refrigerating systems and apparatus, *see* COOLING, ETC.
Refrigerators, *see* COOLING, ETC.
Regenerative braking system for D. C. Motors, *see* MOTOR CONTROL, ETC.
Regulating devices for electric fans, *see* MOTOR CONTROL, ETC.
Reinforced endless rubber belts or bands, *see* LIFTING, ETC.
Repeater device of the stop position of machine tool, *see* METAL WORKING.
Reserpig acid ester, *see* CARBON COMPOUNDS, ETC.
Resilient shoe soles, *see* BOOTS, ETC.
Resinous condensation and polymerisation products, *see* CARBON COMPOUNDS, ETC.
Resinous and condensation product, *see* CARBON COMPOUNDS, ETC.
Resinous compositions plastic, *see* PLASTIC, ETC.
Resinous polymerisation production, *see* CARBON COMPOUNDS, ETC.
Resins, *see* CARBON COMPOUNDS, ETC.
Resistances, electric, *see* CAPACITANCES, ETC.
Reserpig acid ester, *see* CARBON COMPOUNDS, ETC.
Retractable point pen, *see* WRITING, ETC.
Rice product, extruding apparatus for, *see* MOULDING PLASTIC, ETC.
Rinsing machine for yarns and fabrics, *see* DYEING, BLEACHING, ETC.
Ristocetin aldehyde antibiotic, *see* DISINFECTING, ETC.

ROAD VEHICLES. LII(3).

- Body details of road vehicles comprising design of various types of bodies including motor vehicle bodies. 63114, 63237, 64059, 64099, 64275, 64276, 65549.
connecting tractors to trailers, *see* Draught, etc.
Draught, appliances for. 62835, 63870, 63975, 64432.
Rail and road vehicles, details applicable generally to.
(*This heading includes such details as antidazzle screens, luggage racks, seats, wheel guards and wind screens and like.*)
65392, 65554, 65661.
Undercarriages. 63975, 64220, 64279, 66228.

ROADS AND WAYS. XXVII(3).

- Apparatus for making and repairing (including plants for making tar, macadam and cauldrons, asphalt, gravel-heating and like). 65658.
Gratings (road surface and pavement), and manhole frames. No case.
mix for making traffic ways, *see* Roads, etc.
making traffic ways method for, *see* Road, etc.
Road scavengering, tarring, watering and other surface treatment of roads and ways. No case.

ROADS AND WAYS—contd.

Roads and ways, construction of (other than apparatus for making and repairing). 63730.

Rockets, *see* AMMUNITION, ETC.

Rollers for printing, *see* PRINTING.

Rollers or cylinders general construction of solid bodies and solid shells, *see* FABRICS, ETC.

Rollers resilient for printing, *see* PRINTING.

Rolling bearings, *see* BEARINGS, ETC.

Rolling mills metal, *see* METAL WORKING.

ROPES AND CORDS. LXIV(7).

63691, 64733, 65438.

Rotary drill, *see* MINING, ETC.

ROTARY ENGINES, PUMPS, BLOWERS AND LIKE. XLIV(3).

a reversible rotary pump, *see* General, etc. (Movable, etc.).

Driving arrangements. 63398, 64733, 65438.

General Design—

Fixed abutment type of apparatus. 65682.

Movable abutment type of apparatus. 64086, 66244, 66245.

Unclassified. 63350, 64086, 65651, 65884.

Governing and regulating including valve gear and valve-actuating mechanism. No case.

method of feeding a rotor from metal blanks, *see* Metal working.

Miscellaneous. 65287, 65681.

rotary air pumps, sliding vane type, *see* General design, Fixed abutment, etc.

rotary piston internal combustion engines, *see* Internal, etc.

Working fluid supply. 62754.

Rotary pumps, *see* ROTARY ENGINES, ETC.

Rotary type harrow, *see* AGRICULTURAL, ETC.

Rotatably connected couplings, *see* RAILWAY, ETC. VEHICLES, ETC.

Rotor for electric motors, *see* DYNAMO ELECTRIC, ETC.

Rubber compositions, *see* INDIA RUBBER, ETC.

Rubber hose improvements, *see* PIPE AND TUBES.

Rubber sponge like preparation, *see* INDIA RUBBER, ETC.

Rudders for ships, *see* SHIPS AND BOATS.

S

Salts, metallic, *see* CHEMICAL COMPOUNDS, ETC.

Sand blasting, *see* POLISHING, ETC.

Sanitary closets, *see* CLOSETS, ETC.

Scaffolding, *see* BUILDINGS, ETC.

Scouring fabrics, *see* DYEING, ETC.

Screw drivers, *see* HAND TOOLS.

Screws or cutting screw threads, dies for, *see* METAL WORKING.

Sealing for pistons, *see* STEAM ENGINES, ETC.

Sealing rings for bearings, *see* BEARINGS, ETC.

Selenium cells and other static devices responding to bright and radiant heat,
see TELEGRAPHS, ETC.

Self-propelled projectile, see AMMUNITION, ETC.

Semi conductive devices, see WIRELESS, ETC.

Semi-conductor crystal diodes, see WIRELESS, ETC.

Semi-conductors electrode system, see WIRELESS, ETC.

Semi-conductor transistors, see WIRELESS, ETC.

Senna products, see DISINFECTING.

Separating liquid from gas, see AIR AND GASES, ETC.

Separating liquid from gas, see CHEMICAL, ETC.

Separating liquids by fractional distillation, see DISTILLING, ETC.

Separating minerals by froth flotation processes, see WASHING GRANULAR,
ETC.

Separating solid particles from gaseous stream, see AIR AND, ETC.

Separating solids by wet processes, see WASHING GRANULAR, ETC.

Separation of fly ash from the combustion gases in a five-tube boiler, see
STEAM GENERATORS.

Separators for batteries, electric, see BATTERIES, ETC.

Separators for cells electric, see BATTERIES, ETC.

Separators for electric batteries, see BATTERIES, ETC.

SEWAGE, TREATMENT OF. II(3).

*(Treatment applicable solely for obtaining particular products are indexed
under headings for such products. This heading does not include
CLOSETS; FILTERING; and SIFTING.)*

Bacteriological processes including aerating and oxidising processes and
plants depending upon such processes. 63557, 64805.

Gravity-separation apparatus. No case.

Processes, and plant, miscellaneous. 64250, 65911.

SEWING AND EMBROIDERING. LXVI(7).

Needles, bodkins, prickers, stilletos, needle threaders, thimbles and like tools
and accessories. 65418, 65660.

Sewing and embroidery. 64903.

sewing machine presser foot for, see Sewing, etc.

Sewing machines. 62772, 63011, 63036, 63402, 64145, 64946.

Shafts, see MECHANISM, MISCELLANEOUS.

Shampoo leaves, see TOILETS.

Shaped carbide bounded-graphite bodies, making of, see MOULDING, ETC.

Shaped charge for the perforation of walls, see AMMUNITION, ETC.

Shaping resins articles, see MOULDING, ETC.

Shavers, see CUTLERY.

Sheet feeding devices for presses, see WEBS, ETC.

Sheets of polymeric material production of by rolling, see MOULDING, ETC.

Shield metal arc welding, see METAL WORKING.

Shrinking fabrics, see FABRICS FINISHING.

SHIPS AND BOATS. LIII(2).

- berthing installation, *see* Pontoons, etc.
- Design and structural details. 63690, 65600, 65795, 66053, 66056.
- Pontoons, rafts and fittings and accessories, miscellaneous for. 63252, 64045.
- Propelling (including propellers, screw and like). 63424, 63703, 64704, 64154, 65170.
- protection of ship's hulls, *see* Pontoons saft, etc.
- Rigging, sails and spars for. No case.
- rudders for ships, *see* Steering, etc.
- Steering and manoeuvring (other than by propellers and propelling apparatus). 65181.
- Stowing, handling and launching apparatus. 66108.
- Towing. No case.
- armour and armour plating, *see* Design, etc.
- drag anchors, *see* Pontoons, etc.
- Shocks in water pipes device for damping, *see* VALVES, ETC.
- Shoe fastening device, *see* BOOTS, ETC.
- Shoe horns, *see* BOOTS, ETC.
- Shrinking fabrics, *see* FABRICS FINISHING.

SIFTING AND SEPARATING. XXXIV(4).

- Fixed sieves. No case.
- Hand sieves. No case.
- Miscellaneous—
 - Separating by unspecified process. 64721.
- Pneumatic separators. No case.
- Reciprocating or oscillating sieves. No case.
- Rotary sieves. No case.
- Separating by rotary pitted cylinders and between rotary rollers. No case.
- Sieves with compound motion. No case.
- Signal storage devices, *see* ELECTRIC SIGNALLING, ETC.

SIGNALS, MISCELLANEOUS. LI(4).

- Audible signals, signalling by. No case.
- Boards for displaying announcements for and variable information. No case.
- Miscellaneous. 66239.
- Road traffic, signalling apparatus for. 64319, 64410, 64524, 64814.
- Shipping and marine purposes, signalling apparatus for. 65235.
- Signalling and advertising, monogramonic apparatus for (building up letters and signs by selective combination of elements). No case.
- Sounds, locating source and measuring intensity and velocity of. No case.
- Visible signals, signalling by. No case.
- Silanes, *see* CARBON COMPOUNDS, ETC.
- Siliceous raw materials, burning, *see* CEMENT, ETC.
- Silicon, *see* CARBON COMPOUNDS, ETC.
- Silicon fluorides, *see* CHEMICAL COMPOUNDS, ETC.
- Silver hyponiteita, *see* CHEMICAL COMPOUNDS, ETC.
- Sink-float preparation of minerals, *see* WASHING GRANULAR, ETC.

SIGNALS, ETC.—contd.

Sizing fabrics, *see* **FABRICS, ETC.**

Skird indicator, electric, *see* **MEASURING, ETC.**

Slags, treatment of, *see* **CEMENT, ETC.**

Slide fastners, *see* **FASTENING, ETC.**

Slide operated fasteners, *see* **FASTENING, ETC.**

Sludge, sewage, *see* **SEWAGE, ETC.**

Slurry, separating apparatus of gravity flow type, *see* **FILTERING, ETC.**

SMALL ARMS AND MACHINE GUNS. XXXIX(6).

Ordnance and machine guns, and carriages and mountings therefor. 63258, 66142.

Small arms (including gun-cases)—

Construction other than sights and sighting accessories. 63258, 63779, 65650, 65820, 66142, 66276.

Sights and sighting accessories. No case.

Weapons, other than small arms and warfare teaching. 64619.

Smoke extractors connected to chimney tops, *see* **CHIMNEYS, ETC.**

Smoke preventing in furnaces, *see* **FURNACES, ETC.**

Snap fastenings or stitch buttons for dresses, *see* **DRESS, ETC.**

SOAPS AND CLEANSING, POLISHING AND ABRADING COMPOSITNONS (INCLUDING METAL POLISHES). XLIII(4).

Compositions containing materials other than metals, salts thereof and soaps. 63881, 63882, 64114.

Containing metals, oxides and salts thereof. No case.

moulding soaps, *see* **MOULDING, ETC.**

Polishing compositions for furniture, boots and other articles (including stains for wood). 63025, 64958.

Soaps, and saponaceous compositions, containing fats and other saponifiable materials. 62893, 63004, 63235, 63881, 63882, 64114, 64308, 64346, 64433, 64842, 64866, 65477.

Sockets for electric lamps, *see* **ELECTRIC LAMPS, ETC.**

Solid and powdered fuels, *see* **FUEL, ETC.**

Sound recording system, *see* **PHONOGRAPHS, ETC.**

Sound recovering and reproducing apparatus, *see* **PHONOGRAPHS, ETC.**

Sparking plugs for internal combustion engines, *see* **INTERNAL COMBUSTION, ETC.**

SPECTACLES AND EYEGLASSES. XXXVIII(4).

No case.

Speed regulators for electric motors, *see* **MOTOR CONTROL, ETC.**

Spigot and socket joints with packing, *see* **PIPE-JOINTS, ETC.**

SPINNING AND TWISTING MACHINES FOR PRODUCTION OF YARNS AND THREADS. XX.

(This heading does not include the formation of artificial filaments from viscous liquids which is indexed under CELLULOSE, ETC.)

Bobbins, pirns, spools, reels, cops, balls and wound packages of thread, twine, thin wire and like construction of. 62936, 63263, 63426.

SPINNING AND TWISTING, ETC—contd.

brakes for stopping spindles in spinning and twisting frame, *see* Stitching, etc. (Stop motion.)

cleaning fibres air, *see* Miscellaneous, etc.

cleaning textile machines, *see* Spinning, etc. (Miscellaneous.)

mineral wool spinning, *see* GLASS, ETC.

Miscellaneous processes and accessories for spinning yarns—

Cleaning apparatus. 64731.

protectors for roving bobbins. 63502.

Sweeping lint, fly and the like. 64711.

Preparation of fibrous materials for spinning—

Carding engines (including apparatus for lap forming and balling sliver). 62871, 63143, 64271, 65256, 65531, 66075.

Combing machines. 65598.

Decorticating, breaking, scutching and opening apparatus for flax, hemp, cotton and wool fibres. 63169, 65577.

Drawing frames. 62871, 62880, 63615, 63616, 63617, 63618, 63619, 63692, 63744, 63745, 63805, 64263, 64538, 64659, 65059, 65098, 65740, 66102, 66247.

Feeding apparatus for openers, scutchers, carding engines and like. 63625, 64815, 65577.

Gill boxes. No case.

Gins and burring apparatus. 64237, 64525, 65686.

Heckling machines. No case.

Miscellaneous. 63041, 63293, 63477

protectors for roving bobbins, *see* Miscellaneous, etc.

roving bobbin protectors, *see* Miscellaneous, etc.

Spinning and twisting machines—

Creels and like feeding and delivery apparatus. 65807.

Doffing, bobbin and tube applying and like apparatus for spinning, twisting, winding and like machines. 63110, 63399, 63788, 64737, 64898, 64982, 65609.

Driving and stopping apparatus non-automatic including spindles and their appertenances, driving and stopping apparatus. 62756, 62881, 63620, 64915, 65959, 65960.

Miscellaneous. 63725, 63873, 63978, 64010, 64915.

Mules and twiners (including all spinning, doubling and twisting machines of intermittent type. 62915, 63836, 63846, 65789, 65790.

Rollers and roller heads. 65698.

Roving and thread guides, tension arrangements and roller beams (other than clearing apparatus and creel arrangement). 65142.

Spinning and twisting machines of continuous type; types and kinds of. 62934, 63313, 63930, 65275, 66103.

Stop motions (including delivery, stopping). 63157, 63858, 63859, 64875, 65579.

spinning wheels, *see* Spinning, etc. (Mules, etc.)

twisting filament yarns, *see* CELLULOSE, ETC.

Winding (other than construction of) bobbins, spools, cops, hanks, and balls of yarns, threads, cords, ropes, wire and the like. 63249, 63539, 63656, 64456, 64874, 65313.

wire reeling device, *see* Spinning, etc. (Doffing, etc.)

SPINNING AND TWISTING, ETC.—concl'd.

Yarns and threads, finishing, dressing and testing and inspecting. 63032, 63448, 64892.

Spray drying apparatus, *see* DRYING, ETC.

Spray nozzle for sprayers, *see* SPRAY, ETC.

Spray of gas-entrained liquid, *see* SPRAY PRODUCERS, ETC.

SPRAY PRODUCERS AND SPRINKLERS. XXIX(2).

(The nozzles indexed here are those of general and unspecified application; spray producers and nozzles applicable, solely to particular purposes are indexed under headings denoting such purposes, such as BURNERS; FURNACES; carburettors (INTERNAL COMBUSTION ENGINES).

Design of jet nozzles, spreaders and atomisers. 63168, 64107, 64571.

nozzles for, *see* Designs of jets, etc.

spray of gas-entrained liquid, *see* Spraying and sprinkling, etc.

Spraying and sprinkling machines, general design of (other than construction of jets and nozzles). 63100 63861, 64641.

SPRINGS AND VIBRATION DAMPERS. LII(4).

Buffers, resilient-shackles and other arrangements of springs with mountings complete in themselves (other than railway vehicle buffers). 65163.

Cushioning devices of general and unspecified application (including both system and arrangement of springs, and devices other than springs). 66250.

Gaiters and other detachable covers. No case.

Metallic springs, construction form and mounting of. No case.

Non-metallic materials, composed wholly or mainly of. 64541, 64699.

Pneumatic and hydraulic springs, cataracts, dashpots and fluid friction vibration dampers. No case.

Vibration dampers (other than fluid friction). No case.

steam and other fluid pressure hammers and presses, *see* HYDRAULIC PRESSES, ETC.

Stamping, *see* METAL WORKING.

Starters for electric motor, contacts for, *see* MOTOR CONTROL, ETC.

Starting system for internal combustion engines, *see* INTERNAL, ETC.

Stationary weft supply in looms, *see* LOOMS.

Stator cane assembly in turbines, *see* TURBINES, ETC.

STEAM ENGINES AND ENGINE DETAILS. XLV(3).

Connecting rods, crossheads, eccentrics, eccentric rods, and guides, engines and like. No case.

Cylinders. No case.

Distributing and expansion valves and valve gear and valve actuating arrangements. No case.

Flywheels. No case.

General design of steam engines and details, not otherwise provided for. No case.

Joint making packing. 63440.

Miscellaneous. No case.

STEAM ENGINES, ETC.—contd.

Pistons and piston rods (including packing therefor). 63164, 64043, 64146, 64616, 65893.

Regulating, controlling, starting, stopping and reversing steam engines. No case.

Steam separators. No case.

Vapour and vacuum engines. No case.

Steam generating unit, *see* STEAM GENERATORS, ETC.

STEAM GENERATORS. XLV(4).

Blow down apparatus (including surface blow off apparatus). No case.

burners installations for, *see* Burners, etc.

Drums, mud, steam, and water and like chambers, shells and barrels and tube plates. 64581.

dust collection from combustion gases in a boiler, *see* Miscellaneous.

Feed water, supplying and controlling. 62993.

Fire boxes (locomotive and vertical boiler type). 64653.

Flues (both internal and external) and tubes, smoke, flame, fire and like, and settings. 65839.

General design of (arrangement and disposition of tubes, etc.). 63270, 63274, 64672, 64925, 65002, 65188, 65772.

Heating. 65002.

Joints, jointing and connections (including expansion hooks and rings). No case.

load supporting means subjected to high internal temperatures and pressures, *see* Miscellaneous.

load supporting means for vessels subjected to high pressure and temperatures, *see* Miscellaneous.

Miscellaneous—

Dust collector. 63104.

Fly ash separators. 63105.

Laminated metal structure. 66058.

Load supporting means subjected to high internal pressure and temperatures. 63828, 63827.

steam separators, *see* Steam engines.

separation of fly ash from the combustion gases in a fine tube boilers, *see* Miscellaneous.

Smoke-boxes. 64653.

smoke boxes, cleaning or cleaning treatment of, *see* Smoke boxes.

smoke tubes of locoboilers, cleaning treatment for, *see* PIPES AND, ETC.

Stays and staying. No case.

Tubes, water, construction of. 64461.

Valves, application and arrangement of. 62993.

vessels subjected to high internal pressures and temperature means for accommodating expansions and contractible moment, *see* Miscellaneous.

Water circulation, auxiliary apparatus for promoting. No case.

STEAM SUPERHEATERS. XLV(5).

Chambers, heated by combustion gases. 64581.

Coiled and sinuous tube apparatus and straight tube apparatus (other than fire and smoke tube apparatus). 64466, 64672.

STEAM SUPERHEATERS—contd.

Fire and smoke tube apparatus. 65188, 65772.

Miscellaneous. No case.

Mounting and supporting. 64117.

Steam valves, arrangement of. No case.

Steelbene compounds, *see* CARBON COMPOUNDS, ETC.

Steroids, *see* CARBON COMPOUNDS, ETC.

Stilben compounds, *see* CARBON COMPOUNDS, ETC.

Stilbens, *see* CARBON COMPOUNDS, ETC.

Stilbyl triazole compounds, *see* CARBON COMPOUNDS, ETC.

Stitch adjusting device for sewing machines, *see* SEWING, ETC.

Stokers, mechanical, *see* FURNACES, ETC.

STONE CUTTING AND WORKING. XXV(3).

(*Excepting boring earth and rock, see MINING ; EXCAVATING*). No case.

STOPPERING, FILLING AND OPENING, BOTTLES, JARS, AND LIKE VESSELS. XL(6).

(*In the heading the apparatus includes also methods depending on such apparatus.*)

an aperture through which material is dispensed, *see* Stoppers, etc.

Apparatus for applying closures and closure devices. No case.

bottle capsule opener, *see* Bottling, etc.

Bottling (including filling cans and tubes with liquids and opening and funnels for liquids). 63383, 64219, 64741, 65771.

cap for closing of container, *see* Cap and slug, etc.

Capsules closely conforming to receptacle neck, and capsule like closures. 62864, 64888, 65316.

dispensing liquids, other than measured quantities, *see* Bottling, etc.

Downwardly seated closures held in position by other means than auxiliary mechanical devices. 63197, 64137, 65887.

liners for crown corks, *see* Capsules, etc.

Mechanical retaining devices disposed in or outside and coacting with neck of receptacles, stoppers seated by. 63197, 64387, 64803, 66097, 66233.

Miscellaneous. 66101.

opener bottle capsule, *see* Bottling, etc.

phials for medicine cosmetics and like with means to facilitate its extraction, *see* Stoppers, etc.

Stoppers adapted to act as or fitted with devices to facilitate discharge of contents or admission of liquids and gases. 63765, 63862, 64395, 64389, 64853, 65359, 65887.

Storage batteries, electric, *see* BATTERIES, ETC.

Storage cells, electric, *see* BATTERIES, ETC.

STOVES, RANGES AND FIRE PLACES. XV(2).

(*This heading includes only apparatus for producing heat by consumption of wood, coal, oil or gas for domestic purposes.*)

63963, 64215, 64630, 65343, 65344 65648.

Strengthening the glass sheet, *see* GLASS, ETC.

STUFFING BOXES. XLV(6).

65526.

Submerged electric arc welding composition, *see* METAL WORKING.

Suction cleaners, *see* AIR AND GASES, ETC.

SUGAR. XVII.

(Steps in processes in sugar manufacture involving improvements in connection with distilling, evaporating, drying electrolysis filtering, grinding and crushing, mixing and agitating, and sifting are indexed under headings denoting such operations.)

purifying by electrolytic processes, *see* Electrolysis, etc.

Extracting sugar from raw materials, other than purifying and refining processes. 62728, 63893.

extraction sugar content of sugar beets, *see* Extracting, etc.

Glucose, maltose, lactose and like. 63076, 63118.

Miscellaneous—

Extracting and cleaning sugar-basts. 63893.

Purifying saccharine liquids and refining sugar.

63118, 64130, 64174, 65110, 65514.

Sugar juices clarifying by electrolytic methods, *see* ELECTROLYSIS, ETC.

Sulfonamide compounds, *see* CARBON COMPOUNDS, ETC.

Sulfonyl urea, *see* CARBON COMPOUNDS, ETC.

Sulphonamide, *see* CARBON COMPOUNDS, ETC.

Sulphonamide derivative, *see* CARBON COMPOUNDS, ETC.

Sulphonamides, *see* CARBON COMPOUNDS, ETC.

Sulphonyl ureas, *see* CARBON COMPOUNDS, ETC.

Sulphur dioxide, *see* CHEMICAL COMPOUNDS, ETC.

Superheaters steam, *see* STEAM SUPERHEATER, ETC.

Support structures for seed drilling machine, *see* AGRICULTURAL, ETC.

Supporting electric cables and conductors, *see* CONDUCTORS, ETC.

Surface gauges, *see* GAUGES, ETC.

Surgical operating appliances, *see* MEDICAL, ETC.

Surgical sutures maintaining, *see* MEDICAL, ETC.

Switch boards electric, *see* ELECTRIC, ETC.

Switches, electric, *see* ELECTRIC, SWITCHES, ETC.

Switches for railways and tramways, *see* RAILWAY, ETC.

Synthetic fibres, and filaments production of, *see* CELLULOSE, ETC.

Synthetic meat composition for human beings, *see* FOOD, ETC.

Synthetic rubber, *see* CARBON COMPOUNDS, ETC.

Synthetic staple fibres manufacturing, *see* CELLULOSE, ETC.

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TABLE ARTICLES. LXVI(8).

(This heading includes table article like cosies, drinking vessels, egg cups, flower holders, napkins, spoons, plates, dishes, saucers and trays.)

63267, 64617, 65057.

Tablet, medicinal making, *see* MOULDING, ETC.

TANKS AND CISTERNS. XXVIII(5).

65237.

Tape, adhesive, *see* PROOFING, ETC.

Tea leaves picking machines, *see* AGRICULTURAL, ETC.

TEA MANUFACTURE. XVIII.

(Steps in processes for tea manufacture involving improvements in connection with coolnig, drying, grinding and crushing, mixing, separating or sorting, and sifting are indexed under headings denoting such operations.)

Breaking or cutting tea. 63574.

coffee concentrate process, *see* Tea, Coffee, etc.

Fermenting tea. No case.

infusions, tea, coffee and like, apparatus for making, *see* Decoctions, etc.

material processing machinery such as tea machinery, *see* Miscellaneous.

Miscellaneous—

Material processing machinery. 62736.

Removing stalk and fibraces substances during tea manufacture. 64797.

preparations of tea or coffee, *see* Tea, etc.

Rolling—

Caps, cylinders and pressure regulating means and like upper elements of horizontal rollers. 63186, 63574, 64687.

Rollers and crushers, other than horizontal. No case.

Tables, doors and like lower elements of horizontal rollers (including driving gear). 63186, 63268, 64687.

Temperature control devices for rollers. No case.

tablet of tea milk and sugar, *see* Tea, etc.

Tea, coffee and cocoa preparations, and substitutes. 63266, 63439 64804.

Tea, milk and sugar tablet of, *see* TEA MANUFACTURE.

Tea rolling machines, *see* TEA MANUFACTURE.

TELEGRAPHS, ELECTRIC. LXI(1).

advancing and reversing mechanism automatic for teleprinter ink ribbons, *see* Typewriting, etc.

Artificial lines, attenuation equalisers, filter circuits and other impedance net works for dealing with telephone and other complex currents. 62820, 63614, 65426.

Code telegraphy—

Diplex, duplex and multiplex systems. No case.

Portable or field sets. No case.

Receivers construction of. 63446, 66166.

Systems and apparatus other than receivers, relays, transmitters and diplex and like systems. 65119, 65426.

Transmitters, construction of. No case.

coupling means for television receiving aerials, *see* Television, etc.

Electric synchronous movements and synchronism indicators. No case.

facsimile apparatus, *see* Television, etc.

light sensitive devices using selenium or other solid resistance bridying solid electrodes, *see* Selenium, etc.

printing telegraph apparatus, *see* Typewriting, etc.

TELEGRAPHS, ETC.—contd.

receivers, television, *see* Television, etc.

receiving combiners for start-stop teleprinter machines, *see* Typewriting, etc.

Selenium cells and light valves in which electric and magnetic stress produces optical effects. 65132.

teleprinter installations circuit arrangement for, *see* Typewriting, etc.

teleprinters, *see* Typewriting, etc.

Television and copying and writing telegraphy. 62823, 63075, 63337, 63372, 63450, 64417, 65349.

Typewriting telegraphy. 63314, 63562, 63890, 63891, 63908, 64127, 64674, 64901, 65119, 65218, 65247.

TELEPHONES AND TELEPHONE SYSTEMS, ELECTRIC. LXI(2).

Electric selector switches for telephones. 63737 63738, 64179.

Impulse transmitters set by hand for transmitting variable numbers of electric currents in regular trains. 63674, 63991, 64231, 65085.

magnetic amplifiers, *see* Telephonic, etc.

Telephone exchange systems automatic and semiautomatic—

Inter-exchange working. 62774, 62860, 63218, 63291, 63429, 63737, 65084, 65699, 65700, 65856, 66099.

Meters and metering, etc. 63292, 66117. •

Miscellaneous. No case.

Party line systems. 63442, 64413, 66098.

Telephone exchange systems, manual—

Exchange switch boards and switch board equipment construction and arrangement of. No case.

Inter-exchange working. 63494.

Meters, time indicators and metering systems. No case.

Miscellaneous. No case.

Party line systems. No case.

Telephone instruments and sets—

Condenser telephones and other electrostatic instruments. No case.

Magnetic instruments. 64849.

Microphone and other variable resistance instruments. No case. •

Miscellaneous. 65539.

Mouthpieces, ear pieces and other parts for conveying sound. 64849.

Sets. 66209.

Telephone inter-connection systems, other than exchange. No case.

Telephonic amplifiers and other non-contact making electric relays (other than thermionic). 64698, 65047, 65487.

Transmission systems. No case.

Voice frequency signalling arrangements for enabling setting up, control and supervision of calls over inter-exchange lines of automatic telephone, *see* Telephone exchange, etc., automatic, etc. (Inter-exchange, etc.)

Teleprinter with ribbons, automatic advancing and reversing mechanism for, *see* TELEGRAPHS, ETC.

Teleprinters, *see* TELEGRAPHS, ETC.

TELEPHONES, ETC.—contd.

Television, *see* TELEGRAPHS, ETC.

Television receivers, *see* TELEGRAPHS, ETC.

Tensioning cables, *see* CONDUCTORS, ETC.

Tensioning of reinforcements for reinforced concrete, *see* BUILDINGS, ETC.

Teracycline compounds, *see* CARBON COMPOUNDS, ETC.

Teracycline derivatives, *see* CARBON COMPOUNDS, ETC.

Teracycline derivatives, *see* DISINFECTING, ETC.

Tetracycline compounds, *see* CARBON COMPOUNDS, ETC.

Textile, dyeing, *see* DYEING, ETC.

Textile fabrics and yarns like fluid treatment, *see* DYEING, ETC.

Textile fabrics treating with liquids, processes and apparatus for, *see* DYEING, ETC.

Textile like sheet materials, drying of, *see* DRYING, ETC.

Textile material coating with endless, *see* PROOFING, ETC.

Textile material printing, *see* PRINTING.

Textile materials, treating with liquid, processes other than for proofing, *see* DYEING, ETC.

Textile, printing, *see* PRINTING.

Textiles, coating with resinous materials, *see* PROOFING, ETC.

Textiles dyeing, *see* DYEING, ETC.

Textiles, fabrics and yarns, bleaching, dyeing and like fluid treatments, *see* DYEING, ETC.

Textiles, finishing process, *see* FABRICS, FINISHING, ETC.

Textiles, printing, *see* PRINTING, ETC.

Therapeutic appliances, *see* MEDICAL, ETC.

Therapeutic compositions, *see* DISINFECTING, ETC.

Therapeutic preparation, *see* DISINFECTING, ETC.

Thermally insulated food containers, *see* COOLING, ETC.

Thermally released overload switch, *see* ELECTRIC SWITCHES, ETC.

Thermionic valves, *see* VACUUM, ETC.

Thermoplastic composition, *see* PLASTIC, ETC.

Thermoplastic films sealing the edges of to produce a large single film, *see* CELLULOSE, ETC.

Thermoplastic materials, repairing of, *see* MOULDING PLASTIC, ETC.

Thiadiazine dioxides, *see* CARBON COMPOUNDS, ETC.

Thiamidinithione derivatives, *see* CARBON COMPOUNDS, ETC.

Thiamine derivatives, *see* CARBON COMPOUNDS, ETC.

Thiazoles, *see* CARBON COMPOUNDS, ETC.

Thiazalidines, *see* CARBON COMPOUNDS, ETC.

Thickness of coating on base material, electric apparatus for measuring, *see* MEASURING AND TESTING, ETC.

Thioparabanic acid, *see* CARBON COMPOUNDS, ETC.

Thiophenesulphonyl ureas, *see* CARBON COMPOUNDS, ETC.

Thiopyrophosphoric acid ester, *see* CARBON COMPOUNDS, ETC.

Thiophosphoric acid esters, *see* CARBON COMPOUNDS, ETC.

TELEPHONES, ETC.—concl'd.

Thread joint for plastic pipes, *see* PIPE JOINTS, ETC.

Tiffin carriers, *see* COOKING, ETC.

TINNING, GALVANIZING AND COATING WITH METALS (INCLUDING TREATING METALLIC SURFACES TO PRODUCE MODIFIED SURFACE). XXXIII(9).

63246, 64482, 64483, 64582, 64840, 64872, 64873, 65184, 65185, 65230, 65301, 65374, 65780, 65852.

Tinsel powder for decoration purposes, *see* ORNAMENTING.

Tipping hoppers or apparatus for collecting household refuse, *see* LIFTING, ETC.

Tissue paper appts for coating with adhesive composition, *see* PROOFING, ETC.

Tissue paper coated with adhesive composition, *see* PROOFING, ETC.

Titanium metal, extraction of, *see* METALS EXTRACTING, ETC.

Tobacco fillers for cigarettes and cigars, forming of, *see* CIGARS, ETC.

TOILET AND PERFUMERY. LXVI(9).

62909, 63467, 63472, 63613, 63765, 64114, 64329, 64807, 64842, 64900, 64984, 65137, 65982, 66042, 66266.

Lipstick-casing, *see* BOXES, ETC.

Tool holders, *see* HAND TOOLS.

Tools for sewing components parts to mounting plates of electric apparatus, *see* ELECTRIC COUPLINGS, ETC.

Tooth pastes, varnishing and the like, *see* TOILET, ETC.

Traction, electric, *see* RAILWAYS, ETC.

Traffic control apparatus, *see* SIGNALS MISCELLANEOUS.

Trailers, *see* ROAD, ETC.

Trailers for road vehicles, *see* ROAD, ETC.

Transformer, *see* ELECTRIC, ETC.

Transformers electric, *see* ELECTRIC CURRENT, ETC.

Transistor, *see* WIRELESS, ETC.

Transistor amplifiers, *see* WIRELESS, ETC.

Transistor circuits, *see* WIRELESS, ETC.

Transistors, *see* WIRELESS, ETC.

Transplanting plants and seedlings, *see* AGRICULTURAL, ETC.

Treating textile material with liquid, *see* DYEING, BLEACHING, ETC.

Treatment of tea leaves, apparatus for, *see* TEA, ETC.

Triazine derivatives, *see* CARBON COMPOUNDS, ETC.

Triazine dyes, *see* CARBON COMPOUNDS, ETC.

Trichloromethyloxazolid, *see* CARBON COMPOUNDS, ETC.

Triiodothyronine, *see* CARBON COMPOUNDS, ETC.

Triple valve for compressed fluid braking apparatus, *see* BRAKES, ETC.

Tropine derivatives, *see* CARBON COMPOUNDS, ETC.

Tropinyl ethers, *see* CARBON COMPOUNDS, ETC.

Tubeless pneumatic tyre, *see* WHEELS AND TYRES, ETC.

Tubes, for pneumatic tyres tubes, *see* WHEELS, ETC.

TOILET AND PERFUMARY—contd.

Tubes, thermoplastic extension of, *see* MOULDING, ETC.

Tuisting filament yarns, *see* CELLULOSE, ETC.

Tunneling, *see* MINING, ETC.

TURBINES, REACTION WHEELS AND WIND MOTORS. XLIV(4).

(This heading includes also combination of these with one another or with other motors.)

bladed wheels for gas turbines, *see* Turbines, etc.

Combination plant. 63229, 63590, 63910, 65893.

compressor for gas turbines, *see* Turbines, electric, etc.

control mechanism for aircraft power plant comprising or gas turbine engine, *see* Turbines, etc.

free piston gas generator driven turbines, *see* Combination, etc.

free piston machines in combination with other machines, *see* Combination, etc.

fuel supply system for gas turbines, *see* Turbines, elastic, etc.

gas turbine nozzle assembly, *see* Turbines, elastic, etc.

stator vane rings, locking mechanism, *see* Turbines, electric, etc.

Turbines, elastic fluid. 62742, 63396, 63679, 63832, 64152, 64445, 64722, 64723, 64878, 64879, 64887, 65117, 65121, 65287, 65296, 65353, 65354, 65495, 65525, 65685, 66087.

Turbines, hydraulic. 65160.

turbogenerator, *see* Combination, etc.

Wind, motors. 66012.

Turbogenerator, *see* TURBINES, ETC.

TYPEWRITERS. XXXVII(2).

66040.

Typewriting telegraphy, *see* TELEGRAPHS, ETC.

Tyres and rims therefor, *see* WHEELS, ETC.

U

UMBRELLAS AND WALKING STICKS. LXVI(10).

65435, 65816.

Under carriages for road vehicles, other than motor vehicles, *see* ROAD VEHICLES.

Under-cutters for cutting coal, *see* EXCAVATING.

UNITING METAL TO AND SEALING METAL INTO VITREOUS MATERIALS. LXIII(3).

63579, 63639, 64872, 64873, 65184, 65185, 66167, 66283. •

Urea *see* CARBON COMPOUNDS, ETC.

Urea formaldehyde resins, *see* CARBON COMPOUNDS, ETC.

V

Vaccines, *see* DISINFECTING, ETC.

Vacuum brakes, *see* BRAKES, ETC.

VACUUM OR CONFINED GAS OR VAPOUR OR OTHER APPARATUS FOR ELECTRIC DISCHARGES. LXIII(4).

apparatus for surface treatment of bodies, by a foreign material in bombardment in a glow discharge, *see* Solid, etc. (Types unclassified).

ceramic components of thermionic valves, *see* Solid, etc. (Thermionic, etc. Accessory, etc.)

Liquid electrode apparatus. No case.

methods and apparatus for making grids of thermionic valves, *see* Solids etc. (Thermionic etc.). (Electrodes etc.).

Miscellaneous. 63397.

Solid electrode apparatus—

Cathode ray tubes. 63074, 65736.

Containers and envelopes—

joining and sealing conductors. *see* UNITING METAL, ETC

Constructions involving use of particular materials. No case.

Other unclassified details. 63469, 64074, 64407, 65131, 66167.

Cooling (including temperature regulation). 64074.

Electrode materials—

Cathode materials. No case.

Materials other than cathode. 65630.

Fillings and gettering (including regulating of vacuum)—

Compositions containing gases and vapours other than metallic. 63469, 65131.

Fillings containing metals and metal compounds. 63469, 65131.

Gettering and regulating gaseous pressure. 64508, 64527.

Lamps—

Electrodes, arrangement, construction and mounting. 62735, 65131, 65630, 66275.

Shield, sheaths and other accessory components (condensers, resistances, etc.), mounted within discharge lamp. 63637.

Unclassified details. 64669, 65946.

luminiscent materials for discharge lamps, *see* LUMINISCENT, ETC.

starting and operating lamps, supply systems for, *see* ELECTRIC SUPPLY, ETC.

shape and configuration of the envelopes. 64074, 65131.

luminous screens. 65946.

Magnetic devices for controlling or influencing discharges (other than in cathode ray tubes) and for adjustment of electrodes. No case.

Photo electric cells. No case.

Rontgen ray tubes. 63149.

Thermionic valves—

Accessory components and unclassified details. 64872.

Caps and terminals. No case.

Electrodes, arrangement, construction and mounting. 63242, 65630.

Screens. 65131.

Valves with four or more electrodes. 65727.

VACUUM OR CONFINED, ETC.—contd.

Solid electrode apparatus—*contd.*

Types, unclassified. 65852.

x-ray tubes, *see* Solid, etc. (Rontgen, etc.)

Valve assemble for gas compressors, *see* AIR AND GASES, ETC.

Valve means for controlling intake and discharges, *see* VALVE, ETC.

VALVES AND COCKS (OTHER THAN ENGINE AND LIKE VALVE ACTUATING ARRANGEMENTS) AND LIKE APPARATUS FOR REGULATING FLOW OF FLUIDS. XXIX(3).

Ball and float valves. No case.

Fluid actuated valves (other than ball and float, tyre and waste-preventing). 63026, 64252, 64376, 64809, 64896, 65158, 65765.

fluid and spring operated valves, *see* valves, etc.

fluid pressure and spring operated valves, *see* Valves actuated, etc.

Manually and mechanically actuated valves. 64036, 64535, 65462, 65466, 65500, 65635.

Micellaneous—

Quick chane line fluid for fluid flow control in pipeline or conduit. 62997.

Temperature—responsive device for regulating and shutting off in condensation water drains. 64668.

Regulating volume of flow or pressure of fluids other than by valves. 62754, 65514, 65776.

temperature-responsive device for regulating and shutting off in condensation water drains, *see* Miscellaneous.

Tyre and like inflating and deflating valves. 63259.

vacuum relief, *see* Fluid, etc.

Valves actuated in part by fluid and in part by mechanical means. 62875, 63463, 63511, 63537, 63603, 63711, 63712, 63852, 65116.

Valves for damping shoeks in water pipes fluid actuated, *see* Fluid actuated.

Variable speed drive, *see* MECHANISM, ETC.

Varnishes, japans lacquars and paints vehicles, *see* PAINTS, ETC.

Vat dyes, *see* CARBON COMPOUNDS, ETC.

VENTILATION. XXVI(4).

Fans, punkah and like. No case.

Methods of and arrangement and adaptation of means for ventilation—

Air treating and conditioning (moistening, sterilising and drying etc.) details in ventilating plant. 63520, 64529, 64941, 65888, 66208.

Plant combinations for circulating air in buildings, ships and vechiles. No case.

Ventilators. ventilating shafts and valve and valve apparatus for ventilation. 65090.

Vinyl polymers, *see* CARBON COMPOUNDS, ETC.

Vibration producing or generating mechanisms, *see* MECHANISM, MISCELLANEOUS.

Vibratory electric Motors, *see* DYNAMOELECTRIC.

Vitamins, *see* CARBON COMPOUNDS, ETC.

Vulcanised elastomers, *see* INDIA RUBBER, ETC.

VENTILATION—contd.

Vulcanized fibre products, *see* PROOFING, ETC.

Vulcanised rubber articles, *see* INDIA RUBBER, ETC.

Vulcanizing, *see* INDIA RUBBER, ETC.

W

Warp protector, *see* LOOMS.

WASHING AND CLEANING BUILDINGS AND DOMESTIC ARTICLES OTHER THAN CLOTHES. XLIII(5).

No case.

WASHING GRANULAR, POWDERED AND LIKE MATERIALS. XXXIV(5).

Apparatus containing screening and sieving members (including jigs but not upward current classifiers). 63957; 64016.

Flotation and like selective processes and apparatus. 64867, 65111, 65588, 65599, 66227, 66255.

froth flotation system, *see* Flotation, etc.

separating or sorting particles of different specific gravity by washing, *see* Washing, etc.

sink-float preparation of minerals, *see* Washing, etc.

Upward current classifiers. No case.

Washing, settling and decanting apparatus (other than flotation and screening apparatus and upward current classifiers). 63538, 64083, 64084, 64339, 65449, 65599, 66255.

Washing machine, *see* DYEING, ETC.

Watches, bracelets for, *see* DRESS, ETC. AND JEWELLERY.

Water aerators, *see* AERATING LIQUIDS.

WATER AND OTHER LIQUID LEVELS, REGULATING, INDICATING AND REGISTERING. XLI(9).

(The indication and regulation of level of liquids used in measuring instruments and apparatus, other than those measuring only liquid levels are not indexed here, but under GAUGES; PHILOSOPHICAL INSTRUMENTS; and other headings for such instruments and apparatus.)

No case.

WATER AND OTHER LIQUIDS, AND SEMI-LIQUIDS, RAISING, AND FORCING OTHER THAN BY PUMPS. XLVII(4).

Bucket-elevators, scoop-wheels and like rotary apparatus. 65913.

Chain pumps, and other adhesion apparatus. No case.

liquid forcing out to receiver by over gas pressure, system for, *see* Pressure, etc.

Miscellaneous. No case.

Pressure and vacuum apparatus. 63348, 66121.

Pycota and like reciprocating type of bucket apparatus. 64819.

WATER AND UNSPECIFIED LIQUIDS, PURIFYING AND SOFTENING. II(4).

(This heading includes also processes of hardening and imparting like properties to water.)

Gaseous reagents, treatment with. No case.

WATER AND UNSPECIFIED ETC.—contd.

Heating, treatment by. No case.

Liquid and solid reagents, treatment with (including use of zeolites and like reagents). 62983, 64005, 66153, 66154, 66155.

Miscellaneous. 64805.

Water closets, *see* CLOSETS, ETC.

Water lifting with reciprocating type buckets, apparatus for, *see* WATER, ETC., RAISING ETC.

Water repellent compositions, *see* PROOFING, ETC.

Water taps, *see* VALVES, ETC.

Water tube boilers, *see* STEAM GENERATORS.

WAXES, SHELLAC AND FATTY ACIDS FOR SOAP AND CANDLE MAKING. XI(3).

Fatty acids (including only oleic and other acids for soap and candle making). No case.

Shellac and resin and resinous compounds (other than synthetic). No case. sugarcane wax refining, *see* Waxes.

Waxes. 64037.

synthetic resins, *see* CARBON COMPOUNDS, ETC.

WEBS AND SHEETS AND OTHER FLEXIBLE MATERIAL FEEDING AND DELIVERING. XXXVII(3).

62885, 63052, 63193, 63539, 63680, 63763, 64001, 64418, 65333, 65377, 65652, 65799, 65829.

Weed destroying compositions *see* DISINFECTING, ETC.

WEIGHING APPARATUS. XLI(10).

62885, 63048, 63049, 64414, 64736, 64880, 65701, 65827, 65841.

Weight per unit area of sheets, apparatus for determination of, *see* WEIGHING, ETC.

Welding, *see* METAL WORKING.

Welding electric, *see* METAL WORKING.

Welding rods, *see* METAL WORKING.

WHEELS AND TYRES FOR VEHICLES. LVI.

Air tubes and chambers for pneumatic and like tyres. 63259.

Building and repairing wheels and tyres. 62748, 63509, 63510, 63716, 64044, 64295, 64296, 64572, 65929.

Disc and spoke wheels (other than spring wheels), general design of. 64296.

Hubs for wheels. No case.

Jackets and covers for pneumatic and other elastic tyres. 64492, 64912, 64993.

Metallic and non-metallic cores for tyres. 63716.

Miscellaneous. No case.

Pneumatic and other elastic tyres construction of (other than air tubes and chambers, jackets and covers, metallic and non-metallic cores, tread-bands projections and surfaces). 63200, 63863, 64172, 64940, 64993, 65676, 65815, 66212, 66252.

retreading tyres, *see* Building, etc.

Rims and felloes for wheel tyres. 64295, 64296.

WHEELS AND TYRES ETC.—contd.

Spring wheels. No case.

Tread bands projections and surfaces of pneumatic and like tyres. No case.

Tyres, non-elastic. No case.

Winding flexible materials, *see* WEBS, ETC.

Wire clothes for paper machines, *see* PAPER.

Wire feeding device for arc welding and cutting processes, *see* METAL WORKING.

Wire heald for shedding purpose, *see* LOOMS.

Wire reeling devices, *see* SPINNING, ETC.

WIRELESS SIGNALLING AND CONTROLLING. LXII.

amplifying circuits by using transistors, *see* Miscellaneous.

Aerials and like radiating and receiving conductors. 63450.

couplings for arials, *see* Aerials, etc.

demodulating frequency or phase modulated electric oscillations, *see* Secret, etc.

Diplex, duplex and multiplex systems, utilising. No case.

Directive, propagating and receiving systems (including bearings or location determining). 62773, 64069, 64233, 65670.

Electric oscillations, high frequency, producing by means other than thermionic valves and other discharge tubes. 62820, 65857, 65947, 65995, 66254.

filter, rejector and separator circuit for blocking or separating electric currents of particular frequencies or ranges, *see* Telegraphs, Electric.

electromagnetic waveguides, *see* Miscellaneous.

launching and receiving surface waves resonators, *see* Directive, etc.

Miscellaneous. 63236, 63240, 63256, 63368, 63468, 63579, 63614, 63770, 63771, 64028, 64060, 64214, 64232, 64531, 64873, 64949, 65487, 65627, 65947, 65995, 66036, 66050, 66051, 66148, 66254, 66283.

radio systems, narigational, *see* Directives, etc.

Receiving systems and apparatus (other than for directive, diplex, duplex, secret and selective systems). 63236, 64927.

Secret and selective system requiring specially co-ordinated transmitter and receivers, and other systems not using simply amplitude modulation or interruption, utilising. 63626, 65900.

semiconductive devices, *see* Miscellaneous.

semiconductor device, *see* Miscellaneous.

semiconductor electrode, *see* Miscellaneous.

Thermionic valve circuits for amplifying, generating, modulating, receiving, and relaying—

Amplifying audio frequency currents and television and copying telegraph signals. 65948.

Generating oscillatory and alternating currents (including high frequency transmitting amplifiers). 63850, 64214, 65349, 65857.

Modified for current and voltage supply thereto. No case.

Modulation and interruption of high frequency currents, for. No case.

Receiving high frequency signals. No case.

Relay circuits. 64481.

Utilising discharge tubes of special type and negative resistance tubes in general. No case.

WIRELESS, ETC.—contd.

transistors, *see* Miscellaneous.

Transmitting systems including keying. No case.

Wired-wireless systems. 65075, 65455, 65856.

Wireless receiving sets, construction and control of. 65451.

Withering tea, *see* DRYING, ETC.

WOOD CUTTING AND WORKING, XLIII(6).

64246, 66084, 66206.

Wood pulp, *see* PAPER, ETC.

Wood treating with liquids and gases, *see* PROOFING, ETC.

Work support, *see* METAL WORKING.

Wrapping crimped fibres into packages, *see* PACKING, ETC.

Wrenches, *see* HAND TOOLS.

WRITING APPLIANCES, INK AND RECEPTACLES FOR WRITING MATERIALS. XLII(6).

63554, 63608, 64218, 64632, 64735, 64841, 65046, 65859.

X

X-ray contrast medium, *see* DISINFECTING, ETC.

X-ray tubes, *see* VACUUM, ETC.

Z

Zinc-oxides, *see* CHEMICAL COMPOUNDS, ETC.

PART III

Special Proceedings (Patents), 1960.

This part contains the list of special proceedings in continuation of corresponding lists of the consolidated volume of Inventions 1912-1920, and the Annual Journals for 1921-1959.

A.—Void applications. The applications bearing the following numbers have not been accepted and are deemed to have been refused under Section 5(4) of the Indian Patents and Designs Act, 1911. The Specifications in respect of these applications have not been printed and are not open to public inspection except those marked with the sign† which have been published under Section 78-A (3) :—

62721,	62739,	62740,	62741,	62749,	62750,	62779,	62795,	62796,	62797,
62802,	62804,	62805,	62806,	62811,	62826,	62833,	62834,	62839,	62840,
62844,	62847,	62848,	62865,	62878,	62888,	62905,	62906,	62907,	62914,
62921,	62922,	62924,	62925,	62929,	62937,	62945,	62947,	62948,	62978,
63010,	63019,	63031,	63039,	63047,	63055,	63065,	63082,	63097,	63098,
61113,	63116,	63220,	63258,	63070,	63084,	63088,	63099,	63205,	63206,
63212,	63213,	63233,	63234,	63269,	63272,	63281,	63283,	63298,	63299,
63301†,	63302†,	63333,	63334,	63353,	63354,	63367,	63379†,	63385,	63387,
63390,	63416,	63425,	63427,	63453,	63454,	63487,	63488,	63501,	63503,
63506,	63513,	63526,	63527,	63529,	63545,	63546,	63547,	63553,	63563,

63568,	63570,	63593,	63594,	63599,	63632,	63638,	63652,	63668,	63701,
63705,	63723,	63732,	63735,	63747,	63783,	63786,	63800†,	63847,	63848,
63850†,	63864,	63874,	63878,	63879,	63903,	63914,	63931,	63934,	63940,
63941,	63942,	63943,	63944,	63945,	63946,	63947,	63964,	63965,	63967,
63968,	63981,	63988,	64001†,	64004,	64012,	64013,	64014,	64015,	64021†,
64054,	64069†,	64075,	64077,	64090,	64094,	64106,	64111,	64132,	64138,
64153,	64170,	64175,	64176,	64204,	64235,	64248,	64293,	64294,	64299,
64301,	64308,	64314,	64315,	64334,	64335,	64337,	64355,	64363,	64377,
64390,	64399,	64402,	64425,	64426,	64437†,	64446,	64448†,	64452,	64469,
64475,	64489,	64491†,	64498†,	64504,	64512,	64518,	64526,	64542,	64543,

64544,	64555,	64556,	64560,	64574,	64575,	64576,	64591,	64596,	64597,
64599,	64621,	64622,	64637,	64640,	64642,	64643,	64665,	64676,	64677,
64680,	64685,	64690,	64699†,	64703,	64704,	64728,	64752,	64772,	64804,
64817,	64818,	64826,	64837,	64838,	64839,	64843,	64863,	64864,	64870,
64877†,	64882,	64909,	64937,	64942,	64944,	64947,	64949,	64953,	64954,
64961,	64971,	64990,	64991,	65017,	65025,	65039,	65042,	65043,	65048,
65060,	65069,	65071,	65082,	65083,	65087,	65094,	65099,	65108,	65145,
65153,	65154,	65155,	65162,	65165,	65187,	65197,	65198,	65199,	65200,
65202,	65203,	65205,	65206,	65209,	65215,	65217,	65234,	65237,	65238,
65245,	65246,	65261,	65262,	65263,	65265,	65275,	65281,	65295,	65298,

65307,	65308,	65309,	65312,	65323,	65324,	65325,	65326,	65330,	65331,
65332,	65340†,	65346,	65347,	65351,	65364,	65379,	65380,	65381,	65382,
65395,	65404,	65410,	65413,	65421,	65424,	64429,	65432,	65433,	65434,
65439,	65445,	65458,	65482,	65484,	65520,	65532,	65535,	65537,	65542,
65544,	65548,	65555,	65589,	65593,	65607,	65612,	65631,	65639,	65640,
65641,	65642,	65643,	65644,	65645,	65647,	65666,	65683,	65687,	65698,
65713,	65723†,	65737,	65738,	65753,	65761,	65762,	65763,	65769,	65773,
65781,	65782,	65783,	65784,	65785,	65802,	65803,	65813†,	65817,	65818,
65825,	65839,	65840,	65861,	65889,	65904,	65907,	65917,	65923,	65929,
65942,	65943,	65944,	65952,	65955,	65956,	65964,	65968,	65974,	65975,

65981, 65985, 65986, 65994, 66009, 66011, 66013, 66019†, 66028, 66029,
 66041, 66052, 66054, 66055, 66071†, 66072†, 66082, 66111, 66112, 66149,
 66162, 66191, 66193, 66210, 66224, 66226, 66229, 66234, 66235, 66236,
 66237, 66241, 66257, 66258, 66262†, 66265, 66269, 66272, 66285, 66286,
 66289.

B.—Abandoned applications. The applications bearing the following numbers have been accepted and the specifications have been printed but patents have not been sealed thereon within the period prescribed in Section 10(2) of the Act—

62759, 62809, 62912, 62936, 63033, 63054, 63068, 63290, 63329, 63331,
 63443, 63471, 63483, 63592, 63596, 63660, 63670, 63671, 63799, 63912,
 63950, 64031, 64091, 64192, 64193, 64332, 64356, 64360, 64393, 64400,
 64524, 64619, 64636, 64638, 64639, 64682, 64770, 64777, 64782, 64830,
 64871, 64888, 64910, 64955, 65100, 65127, 65221, 65251, 65313, 65321,
 65359, 65414, 65591, 65611, 65759, 65831, 65938, 66060, 66076, 66077,
 66078, 66094, 66173, 66184, 66211, 66263.

C.—List of applications on which oppositions were filed.

(a) Opposition to the grant of patents. Sec. 9.

Application No.	Name of Applicant.	Result.
44306	N. D. Daroga, I. K. Panchal and G. B. Gadre.	Pending.
44964	Cognate N. D. Daroga, I. K. Panchal and G. B. with No. 44965. Gadre.	Pending.
44966	Cognate N. D. Daroga, I. K. Panchal and G. B. with No. 44967. Gadre.	Pending.
46501	N. D. Daroga, I. K. Panchal and G. B. Gadre.	Pending.
48314	American Home Products Corporation.	Opposition partly successful. Patent to be sealed subject to amendment of the specification.
53440	J. G. Talati	Opposition allowed.
53506	National Bobbin Company	Opposition disallowed and Patent not granted.
53764	Chas. Pfizer & Co., Inc., ...	Pending.
53863	Chas. Pfizer & Co., Inc., ...	Pending.
53922	K. L. Verma	Pending.
53959	J. R. Geigy A. G.	Pending.
54250	A. B. Svenska Skolastfabriken	Pending.
54422	Bristol Laboratories Inc., ...	Opposition withdrawn. Patent to be sealed subject to the amendment of the specification.
54983	Grundy (Teddington) Ltd., and S.W. Grundy.	Opposition allowed in part. Patent to be sealed subject to the amendment of the specification.

Application No.	Name of Applicant.	Result.
55015	F. L. Smidth & Co., A/s	Pending.
57344	E. Belik, Ing. M. Herold and RNDR J. Doskocil.	Opposition withdrawn.
57855	S. N. Poddar	Application withdrawn.
58086	The Gopal Glass Works No. 2 and C. Agarwal.	Opposition decided in favour of opponents. Patent not to be sealed.
58237	D. P. Ahuja	Pending.
58401	Hercules Powder Co., Inc., . . .	Pending.
58619	G. D. Khanna	Pending.
58678	T. L. Chari	{ 1st Opposition. Pending. 2nd Opposition. Pending.
58709	Phillips Petroleum Co.	Pending.
59296	V. H. Lodaya, V. C. Ajmera and S. A. Ajmera.	Application abandoned.
59471	V. H. Lodaya, V. C. Ajmera and S. A. Ajmera.	Application withdrawn.
59589	Timber Box Mfg. Co.	Pending.
59595	R. A. Cole and K. K. Nag	Opposition withdrawn.
59703	Egyesult Gyogyszer Es Tapszergyar	Pending.
60051	Nippon Kagaku Seni Kenkyujo . . .	Application abandoned.
60052	Nippon Kagaku Seni Kenkyujo . . .	Application abandoned.
60248	Godrej & Boyce Mfg. Co., Private Limited.	Opposition treated as withdrawn.
60425	Fisons Pest Control Limited . . .	Pending.
60445	Cromelite (India) Private Ltd. . .	Pending.
60469	Nippon Kagaku Seni Kenkyujo . . .	Application abandoned.
60929	Ananta Kumar Datta	Pending.
61336	Chas. Pfizer & Co., Inc.	Opposition withdrawn.
61344	Union Carbide Corporation	Opposition successful. Patent not sealed.
61438	R. D. Garg	Pending.
61449	S. N. Poddar	Opposition withdrawn.
61875	Karnani Metal Fabricators and Electro Depositors.	{ 1st Opposition. Pending. 2nd Opposition. Pending.
62086	Carona Sahu Company Private Limited.	Pending.

Application No.	Name of Applicant.	Result.
62087	Carona Sahu Company Private Limited.	Pending.
62166	Industrias Cemar, S. A.	Pending.
62167	Industrias Cemar, S. A.	Pending.
62423	Heyden Newport Chemical Corporation.	Pending.
62506	K. S. V. Rajan	Pending.
62552	F. R. Schlatter	Application abandoned.
62582	V. H. Lodaya, V. C. Ajmera and S. A. Ajmera.	Application withdrawn.
62616	Heyden Newport Chemical Corporation.	Pending.
62751	Council of Scientific and Industrial Research.	Pending.
62912	Swissco Sales Corporation	Application abandoned.
62932	Union Carbide Corporation	Opposition partly allowed. Patent to be sealed subject to the amendment of the specification.
62936	Timber Box Manufacturing Co.	Application abandoned.
62988	Eastman Kodak Company	Pending.
62989	Eastman Kodak Company	Pending.
63208	American Cyanamid Co.	Pending.
63373	Chas. Pfizer & Co., Inc.	Pending.
63458	Chas. Pfizer & Co., Inc.	Pending.
63491	Styrene Products Limited.	Opposition withdrawn.
63592	Collins & Co.	Application withdrawn.
64011	Frantisek Schill and Frantisek Konarek.	Pending.
64196	Merck & Co., Inc.	Opposition withdrawn.
64716	Council of Scientific and Industrial Research.	Pending.
64770	Carona Sahu Co. Private Limited	Pending.
64857	Imperial Chemical Industries Limited	Pending.
65100	C. A. Anvindyamanik and Lakhi Trading Company.	{ 1st Opposition. Pending. 2nd Opposition. Pending..
65128	E. I. Du Pont de Nemours & Co.	Pending.
65134	George Mountford Adie	Opposition withdrawn.

Application No.	Name of Applicant.	Result.
65141	Roskilde Medical Co., Ltd., . . .	Pending.
65221	Miag Muhlenbau Und Industrie G. m.b.H.	Pending.
65251	Institut Francais Du Petrole, Des Carburants Et Lubrifiants.	Application abandoned.
65447	Mrs. Madhuri Mitra	Pending.
65610	Council of Scientific and Industrial Research.	Pending.
65659	Excel Industries	Pending.
65714	M. K. Mehta & Mrs. K. Mehta .	Pending.
66042	Jamie Phiroz Birdi	Pending.
67353	R. Garstenauer	{ 1st. Opposition. Pending. 2nd. Opposition. Pending.
67359	O. M. Parikh	Pending.
67478	Unilever Limited	Pending.
67500	American Cyanamid Company . .	Pending.
67519	Rattan Chand Harjasrai (Plastics) Private Limited.	{ 1st. Opposition. Pending. 2nd Opposition. Pending.
67561	D. P. Saboo	{ 1st. Opposition. Pending. 2nd. Opposition. Dismissed. 3rd. Opposition. Pending. 4th. Opposition. Pending. 5th. Opposition. Dismissed.
67651	D. P. Saboo	Pending.
67853	Lalit Singh Nahar	Pending.
67874	The Electric Storage Battery Company	Pending.
68778	Veb Filmfabrik Agfa Wolfen . .	Pending.

(b) Opposition to the petition for extension of the term of patents under section 15 of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
22410	K. L. Verma	Opposition pending.
25125	{ Eknath Yeshwant Ranade Jewanlal (1929) Ltd.	{ 1st Opposition pending. 2nd Opposition pending.

Patent No.	Name of Applicant.	Result.
30706	Southern Railways Private Ltd. of Madras.	1st Opposition was allowed and the petition for extension of the term of the patent was rejected.
	T. V. Sundaram Iyengar	2nd Opposition. Do.
31035	Dhriendra Chandra Bhattacharjee	Opposition pending.
33995	General Electric Company	Opposition pending.
34000	General Electric Company	Opposition pending.
35209	The Chemical, Industrial and Pharmaceutical Laboratories, Limited.	Opposition pending.

(c) Opposition to the amendment under Sec. 17 of the Act.

60929	Ananta Kumar Datta	Pending.
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(d) Opposition to the grant of Licence on application under section 22 of the Indian Patents & Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
43678	Farbenfabriken Bayer	Opposition pending.
43679		
48416	Aladdin Industries Ltd. and Alfred Gregory Imber	Opposition pending.
47165	Rodi & Wienenberger Aktiengesellschaft.	Opposition pending.
47165	Rodi & Wienenberger Aktiengesellschaft.	Opposition was allowed and the application for licence was treated as withdrawn.
47165	Rodi Wienenberger Aktiengesellschaft	1st Opposition.
	Madhukar Sadashiv Wadke	2nd Opposition
		Opposition was allowed and the application for licence was treated as withdrawn.

(e) Opposition to the grant of Licence on application under section 23CC of Indian Patents & Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
51304	Benger Laboratories Ltd.	Opposition pending.
41041	American Cyanamid Co.	Opposition was allowed and the application for licence was treated as withdrawn.

Patent No.	Name of Applicant.	Result.
42204	American Cyanamid Co. . . .	Opposition was allowed and the application for licence was treated as withdrawn.
42206	American Cyanamid Co. . . .	Opposition was allowed and the application for licence was treated as withdrawn.
44474	American Cyanamid Co. . . .	Opposition was allowed and the application for licence was treated as withdrawn.
45719	American Cyanamid Co. . . .	Opposition was allowed and the application for licence was treated as withdrawn.
51692	American Cyanamid Co. . . .	Opposition was allowed and the application for licence was treated as withdrawn.
42776	Chas. Pfizer & Co. . . .	Opposition pending.
44989	Chas. Pfizer & Co. . . .	Opposition pending.
53696	Chas. Pfizer & Co. . . .	Opposition pending.
57978	Chas. Pfizer & Co. . . .	Opposition pending.

D.—Extension of the term of Patents under section 15 of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
22410	Govardhan Das Khanna . . .	Pending.
25125	{ Rikhabchand Kesharimal Shah . and Surejmal Kesharimal Shah . }	{ Pending.
30277 43876	{ A. H. Hunt (Capacitors) Ltd. . . }	{ The Central Government has by an order, dated the 13th February, 1960, rejected the petition for extension of the term of this patent.
30706	Wingfoot Corporation . . .	The Central Government has by an order, dated the 17th June, 1960, rejected the petition for extension of this patent.
32821	Thomas Hindmarch . . .	The Central Government has by an order, dated the 25th April, 1960, rejected the petition for extension of the term of this patent.
26688	The Tata Iron and Steel Company Limited.	The Central Government has by an order, dated the 25th August, 1960, rejected the petition for extension of the term of this patent.

Patent No.	Name of Applicant.	Result.
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31035	Ganendra Nath Banerji . . .	Pending.
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26686	The Tata Iron and Steel Company Limited.	The Central Government has by an order, dated the 25th August, 1960, rejected the petition for extension of the term of this patent.
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26689	The Tata Iron and Steel Company Limited.	The Central Government has by an order, dated the 9th September, 1960, rejected the petition for extension of the term of this patent.
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26692 } 26693 }	The Tata Iron and Steel Company Limited.	The Central Government has by an order, dated the 20th September, 1961, rejected the petition for extension of the term of these patents.
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31759 } 37586 }	Westminister Bank Ltd. . . .	Pending.
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31989	Gillanders Arbuthnot & Co. Ltd. . .	Pending.
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37986	Amchem Products Inc. . . .	Pending.
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37987	Amchem Products Inc. . . .	Pending.
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33995	Commissariat A L'Energie Atomique .	Pending.
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34000	Commissariat A L'Energie Atomique .	Pending.
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34840 } 34841 }	De Directie Van De Staatmijnen In Limburg.	Pending.
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35128	Hercules Powder Company . . .	Pending.
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32607	Compania Uruguaya De Fomento Industrial, S. A.	Pending.
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36491	Compania Uruguaya De Fomento Industrial, S. A.	Pending.
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32679	Esso Research and Engineering Company.	Pending.
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E.—Restoration of lapsed patents.

Granted :—27663, 27880, 28302, 28545, 31989, 34780, 36413, 42700, 43669, 43796, 44382, 44458, 44808, 44940, 45035, 45348, 46569, 46723, 47796, 49017, 49454, 49881, 51644, 51887, 52259, 52325, 52342, 52344, 52891, 55223, 55355.

Pending :—34275, 36018, 37988, 39785, 41185, 42768, 42769, 43263, 45724, 47149, 49373, 54206, 54441, 54584.

F.—Application for compensation under section 16 of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
38257	National Alloy & Metal Works Private Ltd.	Pending.

G.—Amendment under the Act and Rules.

(The date given is the date of the Gazette of India in which the last notice appeared).

Patent or Application No.	Date.
44898	6th August, 1960.
50069	4th June, 1960.
55795	27th August, 1960.
57042	5th March, 1960.
58139	20th February, 1960.
58235	17th December, 1960.
59387	26th March, 1960.
59392	16th April, 1960.
60043	27th February, 1960.
62000	30th July, 1960.
62155	6th February, 1960.
62156	6th February, 1960.
62393	16th January, 1960.
62584	26th November, 1960.
62672	30th April, 1960.
62751	11th June, 1960.
62892	22nd October, 1960.
62999	12th March, 1960.
63063	5th March, 1960.
64005	9th April, 1960.
64093	30th January, 1960.
64270	19th November, 1960.
64344	5th November, 1960.
64464	22nd October, 1960.

Patent or Application No.	Date.
64693	27th February, 1960.
64766	12th November, 1960.
64809	27th August, 1960.
64880	19th November, 1960.
64950	15th October, 1960.
65049	12th November, 1960.
65109	20th August, 1960.
65140	3rd December, 1960.
65143	15th October, 1960.
65266	17th December, 1960.
65267	3rd December, 1960.
65373	11th June, 1960.
65461	3rd December, 1960.
65466	11th June, 1960.
65558	17th December, 1960.
65614	17th December, 1960.
65651	22nd October, 1960.
65908	17th December, 1960.
65909	17th December, 1960.
65941	19th November, 1960.
65988	17th December, 1960.
66044	24th September, 1960.
66100	10th September, 1960.
66122	17th December, 1960.
66244	17th December, 1960.
66245	17th December, 1960.
66449	1st October, 1960.
66464	15th October, 1960.
66587	19th November, 1960.
66680	1st October, 1960.
66698	5th November, 1960.
66797	22nd October, 1960.

Patent or Application No.	Date.	-
66904	5th November, 1960.	
67004	17th December, 1960.	
67035	17th December, 1960.	
67196	17th December, 1960.	
67263	29th October, 1960.	
67315	5th November, 1960.	
67479	5th November, 1960.	
67480	5th November, 1960.	
67834	19th November, 1960.	
68100	17th December, 1960.	
69213	3rd December, 1960.	

H.—(a) Appeal to the Central Government against Controller's decision under section 5 of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
65762	P. B. Menon	Pending.
66729	Prof. Rodamir Gasper	Ditto.

(b) Appeal to the Central Government against Controller's decision under section 9 of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
53440	Jayantilal Gamanlal Talatia	Pending.

I.—Appeal to the High Court against the decision of the Controller under section 23F of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
14245	{ Hiralal Banjara and Rajendra Prasad Varma }	Pending.
14245	Ditto	Ditto.

J.—Application for compulsory licence under section 22 of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
48416 . . .	B. K. Shaw Mantle Works . . .	Pending.
47165 . . .	*Bhikhalal Amtalal Shah and Christopher Robin Shah.	Application was treated as withdrawn by an order of the Joint Controller of Patents and Design, dated 1-8-1960.
47165 . . .	Madhukar Sadashiv Wadke . . .	Pending.
43678 } and 43679 }	Arlabs Private Limited . . .	Ditto.
47165 . . .	Swisco Sales Corporation . . .	Application was treated as withdrawn by an order of the Joint Controller of Patents and Design, dated 3-10-1960.

K.—Application for compulsory licence under section 23CC of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
51304 . . .	Raptakos Brett & Co., Private Limited	Pending.
41041 . . .	Hindustan Antibiotics Ltd. . .	Application was treated as withdrawn by an order of the Joint Controller of Patents and Designs dated 28-12-1960.
42204 . . .	Ditto . . .	Ditto.
42206 . . .	Ditto . . .	Ditto.
44474 . . .	Ditto . . .	Ditto.
45719 . . .	Ditto . . .	Ditto.
51692 . . .	Ditto . . .	Ditto.
42776 . . .	Ditto . . .	Pending.
44989 . . .	Ditto . . .	Ditto.
53696 . . .	Ditto . . .	Ditto.
57978 . . .	Ditto . . .	Ditto.
55183 . . .	Ditto . . .	Application was abandoned by the applicants.
61076 . . .	Ditto . . .	Ditto.
60201 . . .	Dey's Medical Stores (Manufacturing) Private Limited, Calcutta.	Application for licence was refused by an order of the Joint Controller of Patents and Designs dated 7-6-1960.
65293 . . .	Ditto . . .	Ditto.

L.—Revocation of Patents on public grounds under section 25 of the Indian Patents and Designs Act, 1911.

Patent No.	Name of Applicant.	Result.
28726		The Central Government has by S.O. 26, dated 30th December, 1960 declared that the patent generally prejudicial to the public and the said patent was revoked under Section 25 of the Act.

M.—Alteration of Dates.

(a) Ante-dated to :—

Application No.	Date allowed.
65966	20th August, 1958.
67143	7th August, 1958.
67345	2nd July, 1958.
67374	30th June, 1958.
67526	1st July, 1958.
67616	7th August, 1958.
67617	7th August, 1958.
67618	7th August, 1958.
67619	7th August, 1958.
68118	18th August, 1958.
68119	18th August, 1958.
68120	18th August, 1958.
68637	25th March, 1958.
68936	1st July, 1958.
69278	7th August, 1958.
69519	28th January, 1959.
69520	28th January, 1959.
69521	28th January, 1959.
69608	6th August, 1958.
69622	21st July, 1958.
69631	29th April, 1958.
69643	8th July, 1958.

Application No.	Date allowed.
69657	13th November, 1958.
69973	4th August, 1958.
70080	18th July, 1958.
70096	1st August, 1958.
70129	11th July, 1958.
70150	24th October, 1958.
70240	3rd March, 1959.
70243	3rd March, 1959.
70255	3rd March, 1959.
70294	6th August, 1958.
70295	19th July, 1958.
70410	20th May, 1958.
70421	29th October, 1958.
70470	6th July, 1958.
70516	15th October, 1958.
70758	8th September, 1958.
70759	8th September, 1958.
70760	8th September, 1958.
70761	8th September, 1958.
70788	17th December, 1958.
70834	24th February, 1959.
70909	14th July, 1958.
70910	14th July, 1958.
70930	15th January, 1959.
71042	14th July, 1958.
71043	14th July, 1958.
71202	6th September, 1958.
71226	31st January, 1959.
71227	31st January, 1959.
71228	31st January, 1959.
71229	31st January, 1959.
71464	1st August, 1958.
71480	3rd February, 1959.

Application No.	Date allowed.
71512	7th April, 1959.
71673	7th August, 1958.
71689	6th April, 1959.
71691	24th October, 1958.
71730	3rd June, 1959.
71731	13th November, 1958.
71790	27th May, 1959.
71865	24th October, 1958.
72101	10th March, 1959.
72213	14th January, 1960.
72381	31st October, 1958.
72437	5th May, 1959.
72478	4th November, 1958.
72494	30th April, 1959.
72521	30th March, 1959.
72553	7th January, 1959.
72586	13th April, 1959.
72591	11th March, 1959.
72724	12th December, 1958.
72749	21st April, 1959.
72902	23rd March, 1959.
72903	23rd March, 1959.
72911	5th May, 1959.
72966	18th April, 1959.
72970	19th March, 1959.
73001	25th April, 1959.
73041	31st January, 1959.
73098	22nd January, 1959.
73116	14th July, 1959.
73184	14th July, 1959.
73186	3rd June, 1959.
73230	25th July, 1959.

Application No.	Date allowed.
73513	26th February, 1959.
73531	24th June, 1959.
73554	11th April, 1959.
73555	11th April, 1959.
73571	22nd April, 1959.
73710	5th May, 1959.
73758	2nd June, 1959.
73759	2nd June, 1959.
73773	22nd May, 1959.
74085	19th March, 1959.
74315	18th March, 1959.

(b) Post-dated to :—

Application No.	Date allowed.
65235	4th September, 1959.
65534	17th August, 1959.
66669	7th October, 1959.
67050	17th April, 1959.

(c) In the following cases the claim to priority date has been abandoned or disallowed and the applications have been dated as of the date of filing in India, or as of a later or earlier date substituted therefor.

Appln. No.	Date claimed.	Date allowed.
64340	11th June, 1957	11th January, 1958.
64679	2nd October, 1957	17th July, 1958.
64744	8th August, 1957	24th July, 1958.
64809	9th September, 1957	31st July, 1958.
64820	16th August, 1957	11th August, 1958.
64845	12th August, 1957	4th August, 1958.
64923	16th August, 1957	11th August, 1958.
65038	29th August, 1957	22nd August, 1958.
65052	26th April, 1958	26th August, 1958.

Appl. No.	Date claimed.	Date allowed.
65232	14th September, 1957	13th September, 1958.
65361	26th September, 1957	24th September, 1958.
65539	18th October, 1957	16th October, 1958.
65624	15th November, 1957	29th October, 1958.
65635	23rd August, 1957	22nd August, 1958.
65726	6th November, 1957	4th November, 1958.
65742	6th November, 1957	5th November, 1958.
65764	21st November, 1957	7th November, 1958.
65843	3rd December, 1957	17th November, 1958.
65847	20th November, 1957	17th November, 1958.
65862	2nd December, 1957	18th November, 1958.
65941	23rd December, 1957	26th November, 1958.
65969	29th November, 1957	29th November, 1958.
66031	17th December, 1957	4th December, 1958.
66087	12th December, 1957	10th December, 1958.
66089	14th February, 1958	10th February, 1959.
66174	13th May, 1958	18th December, 1958.
66187	15th January, 1958	2nd September, 1958.
66242	24th April, 1958	6th August, 1958.
66340	9th January, 1958	6th January, 1959.
66401	23rd January, 1958	13th January, 1959.
66402	22nd January, 1958	15th January, 1959.
66445	3rd February, 1958	17th January, 1959.
66505	24th January, 1958	22nd January, 1959.
66607	17th February, 1958	2nd February, 1959.
66635	7th February, 1958	4th February, 1959.
66663	19th November, 1958	5th February, 1959.
66682	30th May, 1958	9th February, 1959.
66713	14th February, 1958	11th February, 1959.
66723	14th February, 1958	11th February, 1959.
66807	27th February, 1958	21st February, 1959.

Application No.	Date claimed.	Date allowed.
66808 . . .	27th February, 1958 . . .	21st February, 1959.
66860 . . .	4th March, 1958 . . .	26th February, 1959.
66863 . . .	4th March, 1958 . . .	26th February, 1959.
66890 . . .	5th March, 1958 . . .	2nd March, 1959.
66981 . . .	10th March, 1958 . . .	9th March, 1959.
66986 . . .	16th April, 1958 . . .	10th March, 1959.
66993 . . .	24th March, 1958 . . .	10th March, 1959.
67011 . . .	17th March, 1958 . . .	11th March, 1959.
67099 . . .	20th March, 1958 . . .	19th March, 1959.
67186 . . .	31st March, 1958 . . .	26th March, 1959.
67305 . . .	9th April, 1958 . . .	8th April, 1959.
67384 . . .	5th August, 1958 . . .	17th April, 1959.
67607 . . .	20th May, 1958 . . .	6th May, 1959.
67632 . . .	11th May, 1958 . . .	9th May, 1959.
67633 . . .	22nd May, 1958 . . .	9th May, 1959.
67714 . . .	9th September, 1958 . . .	18th May, 1959.
67799 . . .	30th May, 1958 . . .	25th May, 1959.
67826 . . .	7th July, 1958 . . .	27th May, 1959.
67830 . . .	2nd June, 1958 . . .	27th May, 1959.
67847 . . .	2nd June, 1958 . . .	28th May, 1959.
67967 . . .	9th June, 1958 . . .	8th June, 1959.
67973 . . .	25th June, 1958 . . .	9th June, 1959.
68072 . . .	16th October, 1958 . . .	15th September, 1959.
68133 . . .	29th July, 1958 . . .	23rd June, 1959.
68135 . . .	25th June, 1958 . . .	24th June, 1959.
68211 . . .	5th September, 1958 . . .	29th June, 1959.
68290 . . .	7th July, 1958 . . .	6th July, 1959.
68500 . . .	23rd July, 1958 . . .	23rd July, 1959.
68501 . . .	31st July, 1958 . . .	24th July, 1959.
68926 . . .	8th September, 1958 . . .	1st September, 1959.
68998 . . .	3rd October, 1958 . . .	9th September, 1959.
72902 . . .	24th March, 1958 . . .	8th August, 1960.

N.—Correction of Clerical Errors under Section 62.

Appln. No.	Date claimed.	Date allowed.
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59800, 65149, 65242 and 66635.		
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O.—(a) Assignments, licences or other transactions affecting the interests of the original patentees have been registered in respect of the following patents. The number of each patent is followed by the name of the applicant for registration.

- | | |
|-------|---|
| 22410 | { (1st) G. D. Khanna.
(2nd) G. D. Khanna and Lal Chand Khanna. |
| 28002 | { Council of Scientific & Industrial Research. |
| 28005 | |
| 30379 | { Compania Uruguaya De Fomento Industrial S. A. |
| 30618 | |
| 31989 | Gillanders Irbuthnot & Co. Ltd. |
| 32079 | { (1st) G. D. Khanna.
(2nd) G. D. Khanna and Lal Chand Khanna. |
| 32279 | { (1st) G. D. Khanna.
(2nd) G. D. Khanna and Lal Chand Khanna. |
| 32486 | Council of Scientific & Industrial Research. |
| 32607 | Compania Uruguaya De Fomento Industrial S. A. |
| 33078 | Council of Scientific & Industrial Research. |
| 33212 | Thos. Storey (Engineers) Limited. |
| 33592 | { (1st) Corn Products Company.
(2nd) Ditto. |
| 33649 | { Council of Scientific & Industrial Research. |
| 33650 | |
| 33651 | |
| 34820 | { Compania Uruguaya De Fomento Industrial S. A. |
| 35096 | |
| 35209 | Biological Products Private Ltd. |
| 35328 | Council of Scientific & Industrial Research. |
| 35550 | { Compania Uruguaya De Fomento Industrial S. A. |
| 35658 | |
| 36491 | |

- 37971 }
38112 }
38244 } Compania Uruguaya De Fomento Industrial S. A.
38326 }
- 38257 Govind Dodoba Thakoor and Dinkar Devji Pat'l.
- 38857 }
38868 } Compania Uruguaya De Fomento Industrial S. A.
- 39005 Gerbertus Hendrik De Vries.
- 39442 The President of India.
- 39641 Chemical Construction Corporation.
- 40066 Foundry Services International Limited.
- 40257 The President of India.
- 40431 Compania Uruguaya De Fomento Industrial S. A.
- 40968 }
40969 } Council of Scientific & Industrial Research.
40970 }
- 41060 Terrapin (Overseas) Ltd.
- 41245 National Dairy Products Corporation.
- 41298 }
43647 } Chimiotex S. A.
- 43703 }
43704 } Maybach-Motorenbau G.m.b.H.
- 43758 British Industrial Plastics Limited.
- 44256 International Computers and Tabulators Limited.
- 44300 Corn Products Company.
- 44382 National Research Development Corporation of India.
- 44540 Maybach-Motorenbau G.m.b.H.
- 45058 Compania Uruguaya De Fomento Industrial S. A.
- 45425 Chimiotex S. A.
- 45992 S. A. Des Toleries Delloye-Matthieu.
- 45989 Compania Uruguaya De Fomento Industrial S. A.
- 46197 Her Majesty's Post Master General.
- 46323 Zirconium Corporation of America.
- 47234 Ladwing Huber.

- 47388 }
 47539 } Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
 47555 }
 47726 }
- 48121 Compania Uruguaya De Fomento Industrial S. A.
- 48160 International Computers and Tabulators Limited.
- 48193 }
 48194 } American-Marietta Company.
 48195 }
- 48206 New Bemco Engineering Products Private Ltd.
- 48208 }
 48290 } Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
 48291 }
- 48671 ChimioteX S. A.
- 48741 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
- 49054 National Research Development Corporation of India.
- 49163 }
 49167 } Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
 49168 }
- 49394 Vishwakarma Construction (Private) Ltd.
- 49555 National Research Development Corporation of India.
- 49574 Compania Uruguaya De Fomento Industrial S. A.
- 49600 ChimioteX S. A.
- 49604 Globex International Limited.
- 49695 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
- 49715 }
 49939 }
 50360 } International Computers and Tabulators Limited.
 50534 }
- 51069 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
- 51143 International Computers and Tabulators Limited.
- 51193 E. Green & Son Limited (formerly called Green's Economiser Limited).
- 51232 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
- 51539 The President of India.
- 51597 Compania Uruguaya De Fomento Industrial S. A.
- 51807 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.

- 51975 David Brown Industries Limited.
- 51996 Siemens Edison Swan Limited.
- 52267 Pickers Limited.
- 52971 The Upjohn Company.
- 53069 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
- 53099 Space Decks Limited.
- 53389 David Brown Industries Limited.
- 53829 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.]
- 54105 Finlip Products Limited.
- 54528 International Computers and Tabulators Limited.
- 54586 Davar and Company.
- 54867 } National Research Development Corporation of India.
- 54907 }
- 54943 Johnson & Johnson.
- 55139 American Cynamid Company.
- 55454 National Research Development Corporation of India.
- 55562 Nu-Swift Ltd.
- 56398 Globex International Limited.
- 56532 National Research Development Corporation of India.
- 56563 United States Rubber Company.
- 56581 } National Research Development Corporation of India.
- 56582 }
- 56634 Menley and James Limited.
- 56705 National Research Development Corporation of India.
- 56710 United Kingdom Atomic Energy Authority.
- 56717 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
- 57007 National Research Development Corporation of India.
- 57158 The Supaslet Angle Company (G.B.) Limited.
- 57267 National Research Development Corporation of India.
- 57710 Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A.
- 58005 Voltas Limited.
- 58007 National Research Development Corporation of India.
- 58232 Brunt Variable Speed Motors Limited.
- 58354 Caterpillar Tractor Co.

-
- 58399 { (1st) G. D. Khanna.
(2nd) G. D. Khanna and Lalchand Khanna.
- 58430 The Upjohn Company.
- 58553 National Research Development Corporation of India.
- 58582 Finlip Products Limited.
- 58618 Menley and James Limited.
- 58741 Union Chimique Belge Societe Anonyme.
- 58773 Menley and James Limited.
- 58869 }
58909 } National Research Development Corporation of India.
- 58958 Johnson & Johnson.
- 59388 N. V. Metaalindustrie Post & Eger.
- 59433 Johnson & Johnson.
- 59551 Mrs. Aimee Stepha and Eugene Duhamel.
- 59615 Elektrokemisk A/S.
- 59804 Scherico Limited.
- 59878 { (1st) Corn Products Company, a Delaware Corpn.
(2nd) Corn Products Company, a New Jersey Corpn.
- 59975 Chcoppe Manufacturing Corporation.
- 60332 Arthur Hindle, Kantilal Gulabrai Damani, Hasmukhrai Govindji Damani,
Sharda Manubhai Raval and Sharda Dhirajlal Damani.
- 60365 Voltas Limited.
- 60376 }
60377 } The Tata Iron & Steel Company Limited.
60406 }
- 60415 McWane Cast Iron Pipe Co.
- 60430 Z. M. Barda.
- 60555 }
60558 } National Research Development Corporation of India.
- 60796 Arthur Hindle, Kantilal Gulabrai Damani, Hasmukhrai Govindji Damani,
Sharda Manubhai Raval and Sharda Dhirajlal Damani.
- 60984 F. Hoffmann-La Roche & Co. Aktiengesellschaft.
- 61568 Foundry Services International Limited.
- 61601 Mono Pumps Limited.
- 61603 Chas. Pfizer & Co. Inc.

61738 Master Lock Company.

62100 Trubenised (Gt. Britain) Limited. . .

62176 { (1st) Corn Products Company, a Delaware Corpn.
(2nd) Corn Products Company, a New Jersey Corpn.

62366 National Research Development Corporation of India.

63517 { (1st) Corn Products Company, a New Jersey Corpn.
(2nd) Corn Products Company, a Delaware Corpn.

(b) Assignments, Licences etc. in respect of State Patents.

Indore Patent No. 131	Compania Uruguaya De Fomento Industria S. A.
Marwar Patent No. 164	Ditto.
Cochin Patent No. 222	Ditto.
Hyderabad Patent No. 51/1358F	Ditto.
Travancore Patent No. CCCXXIII	Ditto.

PART IV.

Patents in force upto 31st December, 1960.

27085,	27092,	27106,	27107,	27108,	27129,	27133,	27148,	27183,	27209,
27218,	27221,	27229,	27257,	27283,	27334,	27338,	27397,	27401,	27419,
27425,	27507,	27561,	27574,	27598,	27625,	27648,	27669,	27726,	27727,
27733,	27747,	27800,	27810,	27840,	27875,	27878,	27907,	27916,	27917,
27918,	27919,	27938,	27944,	27971,	27999,	28002,	28005,	28009,	28010,
28034,	28073,	28075,	28100,	28102,	28109,	28120,	28155,	28171,	28178,
28183,	28219,	28220,	28221,	28226,	28249,	28274,	28314,	28330,	28340,
28345,	28363,	28366,	28423,	28429,	28437,	28483,	28491,	29501,	28515,
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28699,	28724,	28726,	28732,	28743,	28762,	28768,	28769,	28770,	28790,
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28922,	28923,	28944,	28968,	28972,	28981,	28983,	28989,	29012,	29027,
29028,	29033,	29040,	29041,	29073,	29075,	29080,	29082,	29093,	29159,
29199,	29208,	29212,	29239,	29243,	29286,	29288,	29290,	29291,	29292,
29294,	29296,	29338,	29339,	29340,	29341,	29343,	29344,	29625,	29627,
29709,	29738,	29744,	29950,	30153,	30163,	30182,	30233,	30236,	30237,
30259,	30299,	30331,	30350,	30351,	30352,	30445,	30480,	30619,	30620,
30623,	30672,	30674,	30793,	31935,	31484,	31485,	31693,	31694,	31791,
31886,	31890,	31903,	31906,	31933,	31958,	31974,	31989,	31998,	32008,
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32168,	32169,	32210,	32211,	32215,	32224,	32230,	32248,	32279,	32322,
32342,	32356,	32363,	32364,	32379,	32380,	32381,	32382,	32386,	32390,
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33688,	33694,	33696,	33699,	33741,	33770,	33778,	33783,	33801,	33812,
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33923,	33935,	33941,	33942,	33945,	33947,	33954,	33959,	33962,	33975,
33978,	33991,	33994,	33995,	34000,	34010,	34012,	34027,	34030,	34034,
34038,	34047,	34049,	34078,	34091,	34093,	34094,	34099,	34100,	34102,
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34192,	34208,	34209,	34234,	34272,	34275,	34283,	34295,	34307,	34309,
34311,	34329,	34330,	34332,	34336,	34353,	34363,	34368,	34404,	34406,
34425,	34435,	34444,	34473,	34477,	34484,	34488,	34507,	34508,	34545,
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34694,	34695,	34699,	34709,	34725,	34726,	34746,	34750,	34752,	34773,
34780,	34782,	34790,	34791,	34800,	34820,	34835,	34838,	34840,	34841,
34872,	34876,	34880,	34882,	34903,	34909,	34912,	34924,	34925,	34927,
34934,	34951,	34952,	34954,	34969,	34973,	34974,	34979,	34983,	34984,
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35189,	35192,	35209,	35214,	35222,	35229,	35239,	35242,	35246,	35247,
35249,	35266,	35268,	35287,	35290,	35292,	35296,	35298,	35309,	35315,
35317,	35319,	35320,	35324,	35328,	35335,	35354,	35355,	35367,	35381,
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35582,	35592,	35610,	35620,	35623,	35628,	35632,	35637,	35638,	35641,
35642,	35652,	35653,	35658,	35679,	35683,	35684,	35686,	35691,	35697,
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35786,	35787,	35788,	35795,	35802,	35805,	35807,	35813,	35842,	35844,
35845,	35860,	35861,	35871,	35874,	35916,	35918,	35920,	35921,	35959,
35965,	35968,	35987,	36010,	36018,	36054,	36063,	36067,	36069,	36078,
36104,	36126,	36133,	36166,	36170,	36172,	36175,	36179,	36180,	36186,
36188,	36194,	36212,	36214,	36216,	36217,	36223,	36234,	36300,	36322,
36332,	36336,	36337,	36361,	36369,	36371,	36372,	36373,	36384,	36394,
36399,	36403,	36407,	36413,	36418,	36427,	36428,	36459,	36460,	36462,
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36896,	36900,	36907,	36911,	36912,	36932,	36961,	36965,	36978,	36992,
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39393,	39394,	39399,	39400,	39402,	39403,	39424,	39431,	39432,	39436,
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39569,	39573,	39579,	39582,	39584,	39587,	39588,	39590,	39594,	39596,
39598,	39618,	39619,	39625,	39626,	39628,	39633,	39636,	39639,	39640,
39641,	39664,	39667,	39675,	39677,	39681,	39684,	39688,	39691,	39692,
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69455,	69522,	69537,	69608,	69616,	69622,	69631,	69643,	69657,	69670,
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70834,	70909,	70910,	71042,	71043,	71202,	71464,	71480,	71673,	

PART V.

Designs registered during the year 1959.

The following designs were registered under the Indian Patents and Designs Act, 1911, during the year 1959. The number included in each entry is the registration number of the design. The date following each entry is the date of registration of the design included in that entry. The dates shown in crescent brackets are the dates allowed under Section 78-A of the Act.

CLASS 1.—Articles composed wholly of metal or in which metal predominates and jewellery.

Abdul Hamid Titarbux, Mohalla Sheikhan, Bara Hindu Rao, Delhi. 99379, May 12, 1959. Metallic frame of looking glass.

Abdul M. Khan, S/o. Mr. Khudadad Khan, Mohalla Afghanan, Aligarh, U. P. (India). 96885, October 24, 1958. Hasp.

Agricultural Iron Industries, Baraut, Dist. Meerut, U. P., India. 98733, March 13, 1959. Wheel for carts.

Ahemad Rowther Mohammed Ghani, 146, Thousand Lights, Mount Road, Madras-6. 98760, March 16, 1959. Stool. 98761, March 16, 1959. Stool.

Ajit Singh, trading as The Soni Industries (India), Cheel Mandi, Amritsar, Punjab. 100390, July 23, 1959. Hair clips.

Anantram Dhiman & Sons, V. Mandi, P. O. Apra, Dist. Jullundur, E. Punjab. 98807, March 20, 1959. Rear cover of a chaff-cutting machine.

Annamma Abraham, 17, Vth Trust Cross Street, Mandavallipakkam, Santhome, Madras. 96390, September 13, 1958. Malayalam printing types.

Arvind Engineering Company, New Sun Mill Compound, Sun Mill Road, Lower Parel, Bombay 13, Bombay State. 98155 and 98156, January 27, 1959. A centrifugal blower drum.

Asian Industries (Private) Limited, 425, Model Town, Jullunder, Punjab State. 99360, May 11, 1959. Switch box.

Bachan Singh & Uttam Singh, Trading as Commercial Refrigeration Corporation, 1, 2, 3, Saran Building, Ram Nagar, New Delhi. 97671, December 20 1958. Refrigerator.

Bansilal Thakordas Kansara, Gamdevi, Dist. Surat, Bombay State. 99828, June 12, 1959. Trays.

Binode Chandra Das, Utkal Type Foundry, Cuttack, Orissa. 99249, April 27, 1959. Type faces.

Bodh Raj Anand, Jai Ram Sharma and Raghunath Das Kapoor, Props. Shri Krishan Industries, Opposite Block No. 12, Gumti No. 5, Kanpur, India. 97442, December 4, 1958. Locks.

B. R. Dhiman & Sons and Vishivkarma Foundry, Dist. Apra, Jullundur City, Punjab State. 98336, February 9, 1959. Oil reservoirs in a pankha (side part) of a chaff-cutting machine. 97391, December 1, 1958. An axle of a chaff-cutting machine. 98744, March 14, 1959. Gear box of a gear of chaff-cutting machine.

Chaudhry Sweet House, Fatehpuri, Delhi 6, India. 98740, March 13, 1959. A tin box.

Chelaram Assandas Anvindyamanik and Lakhi Trading Company, Building No. 2, Jai Hind Estate, Bhuleshwar, Bombay-2. 99148, April 18, 1959. An adjustable lamp.

Chitala Brothers, Bhagatwadi, Bhuleshwar, Bombay-2. 98407 to 98413, February 16, 1959. Ear-top, saripin, necklace, pendant, bangle, sherwani button ring and the like made from precious and semi-precious metals.

Commercial Leather Works, 44, Cowasji Patel Street, Bombay-1. 98742, March 13, 1959. Metal edges for purses.

Compagnie Marcocaine De Brevets Polymecaniques, 28, rue Marcel Chapon, Casablanca, Morocco. 99654, June 2, 1959. A lighter.

Dalip Singh Grewal, 409, R. Model Town, Jullundur City, Ram Nath Saigal, Railway Road, Jullundur City, Hari Chand Mahindro, Mohall Mohindro, Jullundur City. 99241, April 25, 1959. Mixer of ice freezer.

Darius Jehangir Lawyer, 16, Horniman Circle, Fort, Bombay-1. 99429, May 19, 1959. A magnetic top.

Davinder Jit Vadra, 395, Double Storey, New Rajinder Nagar, New Delhi. 99100, April 17, 1959. Handles, 100263 to 100265, July 10, 1959. Handles.

De Lux Brass Industries, Bhariavi, Bhagol, Surat, Bombay. 98007, January 18, 1959, Water taps. 98216, February 2, 1959. Stopper.

Dharam Pal and Phool Chand, Trading as Star Metal Works, 4229/4230, Maithan, Agra, U. P. India. 99938, June 24, 1959. Protectors for shoes and boots.

Dhian Singh & Prithi Pal Singh, Gill Road, Ludhiana, Punjab. 96981, October 28, 1958. Chain wheel of bicycle.

Dwarkesh Metal Works, Proprietors—Mathura Das Dwarka Das, Kaserat Katra, Mathura, U. P. India. 97828 to 97830, January 3, 1959. Pitcher.

Eastern Engineering Works, 10104, Pulbangsh, Delhi. 98751, March 14, 1959. Tin cutter.

Eugene Morrison Stones of 5830, West 74th Street, Los Angeles, California, U. S. A. 98624, March 3, 1959. Gun.

Financiere des Applications de l'Electricite, S. A., 61, Marche-aux-Herbes, Brussels, Belgium. 96356, September 10, 1958. A hood for lighting fixture. 96357, September 10, 1958. A reflector for lighting fixture. 96358, September 10, 1958. A fluorescent lighting fixture.

Friends Type Foundry, 8B, Lalbazar Street, Calcutta-1. 100381, July 20, 1959. Printing type faces.

Globe Engineers Private Limited, Govindpuri, Modinagar, U. P., India. 97399, December 3, 1958. Locks.

Gulshan Rai, Gulshan Cycle Industries, G. T. Road, Miller Ganj, Ludhiana, E. Punjab. 98254, February 5, 1959. Bicycle saddle.

Gurbux Singh Sagoo, ND118, Bikrampur, Jullundar City, Punjab. 99845, June 15, 1959. Cylinder of a hand pump.

Guru Nanak Kohlu Factory, Queen's Road, Amritsar, Punjab. 98052, January 17, 1959. Cylinder for Oil expeller.

Hamid Hussain, Trading as H. H. & Sons, 48, Pandel Street, Sidhy Mohalla, Dongri, Bombay-9. 98161, January 27, 1959. A tool bit for making holes.

Harbans Lal, House No. W. N. 208, Basti Danishmandan, Jullundur City, Ved Parkash, House No. W. N. 208, Basti Danishmandan, Jullundur City, and Parkash Wanti, House No. W. N. 250, Basti Danishmandan, Jullundur City, Punjab. 96375, September 11, 1958. Knurling tool holder. 96376, September 11, 1958. Turning tool holder. 96377, September 11, 1958. Parting tool holder. 96378, September 11, 1958. Boring tool holder. 96379, September 11, 1958. Knurling tool holder. 96380, September 11, 1958. Knurling tool holder. 96381, September 11, 1958. Turning tool holder.

Harbans Lal, Proprietor, H. L. Bhardwaj Industries, resident of Basti, Nau, Jullundur City (E. Punjab). 97096, November 8, 1958. Pipe wrench. 100699, August 6, 1959. Nail puller.

Harbhajan Singh & Daljit Singh of Ali Mohalla, Jullundur City and Ram Sahai, Charanjitpura, Jullundur City. 97075, November 6, 1958. Cycle saddle.

Himmat Singh. Vill. & P. O. Chak-Dana, Jullundur Dist., Punjab State. 99361, May 11, 1959. Top of hand pump.

Hind Metal Works, Railway Road, Moradabad, U. P., India. 99948 and 99949, June 26, 1959. Mouth of pitcher.

Hoover Limited, Perivale, Greenford, Middlesex, England. 96621, May 27, 1958, Spin drying machine. 96805, October 15, 1958. Suction cleaner.

Indian Plastics Limited. Poisar Bridge, Kandivlee, Bombay-47. 98865, March 28, 1959. Moulds for necklace. 98864, March 28, 1959. Necklace.

Jagan Nath Jalota, Bazar Sarafan, Phagwara District, Kapurthala, E. Punjab. 98601, March 2, 1959. Filler elements.

Jagat Singh Jandu, Civil Lines, Ludhiana, Punjab, Trading as Jandu Mechanical Works. 96224, August 28, 1958. Driving wheel of sewing machine.

James Winston Scott 15, Hutchison Road, Norden, Rochdale, Lancashire, United Kingdom. 98049, January 17, 1959. A loom picker.

Jamshedji Nowroji & Co., 90, Abdul Rehman Street, Bombay 3. 99937, June 24, 1959. Spanner.

Joginder Singh, Railway Road, Nakodar Dist. Jullunder. 99562, May 25, 1959. Bolts.

Kaiser Hussain Abdul Shakur, Bagichi Achaji. Bara Hindu Rao, Delhi. 99421, May 18, 1959. Frame of looking glass.

Kanhaiya Singh, Hari Singh, Dalip Singh, Sucha Singh, Milkeyat Singh & Gurdev Singh, Trading as Sardar Industries, Meerut Road, Hapur U. P., India. 99867, June 19, 1959. Centre frame of sewing machine stand. 99903, June 23, 1959. Paddle of a sewing machine. 99960, June 27, 1959. Wheel cover of a sewing machine stand.

Kashinath Babaji Tarkar, Dayanand Babaji Tarkar and Balkrishna Kashinath Tarkar, Trading as M/s. B. A. Tarkar, 50, Kansara Chawl, Bombay-2. 98386, February 14, 1959. A picnic box. 98387, February 14, 1959. Kerosene can.

Keshrimall Kundanmull, 46, Strand Road, Calcutta-7. 98111 to 98114, January 22, 1959. Umbrella cage.

Lakhi Trading Company, Joy Hind Estate, Bhuleshwar, Bombay-2. 100948, August 27, 1959. A table lamp.

Lily Chemical Works, 3, Ramkanta Sen Lane, Calcutta-4. 97081, November 7, 1958. Receptacles.

Machine Craft Corporation, 138, Canning Street, Calcutta-1, India. 99001, April 7, 1959. Clutch bracket for rice mills.

Madras Type Foundry, 38, Jones Street, Madras-1. 97197 and 97198, November 17, 1958. Type faces. 99886 to 99888, June 22, 1959. Type faces.

Malhotra and Co., Chandni Chowk, Behind Imperial Bank, Delhi. 95591, July 7, 1958. Carrier for cycle.

Manindra Kumar Ghose, 1/D, Puddapukur Road, P. O. Elgin Road, Calcutta-20. 96500 and 96501, September 26, 1958. Clip for fountain pen, ball pen, stylo pen and pencil etc.

Master Aero Receptor Manufacturing Co., 113, Ali Umar Street, Bombay-3. 99737, June 8, 1959, Aerials.

Maqsood Ahmed Siddique, Benarasi Das Dhiman, Mangal Datta Sharma, Suraj Ram & Ved Prakash Sharma, P. O. Shamli, Dist. Muzaffarnagar, U. P., India. 100393, July 24, 1959. Vehicle wheel.

Mehar Chand Chadha, son of L. D. Chandha, Trading as The New Model Industries, 49, Jangpura Road, Jangpura, New Delhi. 98532, February 23, 1959. Pinch clip.

Metro Perfumery Co., Mori Gate, Delhi 6, India. 98405, February 14, 1959.

Nagar Andul Veeraraghavalu Naidu, Proprietor, Ananda Type Foundry, Koppikar Road, Hubly City, Dist. Dharwar, Mysore. 99085 and 99086, April 16, 1959. Kannada printing types.

Nand Kishore, Son of Gonga Din of Kora Johanabad, Dist. Fatehpur, U. P., India, Trading as Nand Kishore & Sons. 97439, December 4, 1958. Axle of a chaff-cutting machine.

Nand Kishore Vishiv Karma of Kora Jahanabad, Fatehpur, U. P. Trading as Nand Kishore & Sons. 98743, March 14, 1959. Axle in a pankha (side part) of a chaff-cutting machine.

Nannumal, Proprietor, Tilak Lock Industries, Raghubirpuri, Aligarh, U. P., India. 98809, March 21, 1959. Lock.

Narottam Karsondas Bhimani, Ajitsinh Karsondas Bhimani & Kishore Madhavsingh Bhimani of 222, Sir Mathuradas Vissanji Road, Andheri Bombay. 98415, February 16, 1959. Fuse box.

National Agencies, Hans Katora, Varanasi, U. P. (India). 97456, December 8, 1958. Telephone stand.

National Carbon Company (India) Ltd., of 1 & 3, Brabourne Road, Calcutta-1. P. O. Box 2170. 97553, December 11, 1958. A flash light case, 97554, December 11, 1958. A switch for a flash light. 98968 and 98970, April 6, 1959. A flash light case. 98969, April 6, 1959. A lens ring for a flash light case.

Natvarlal Ramanlal Gandhi, C/o. Shailesh Trading Corporation, 89, Abdul Rehman Street, Bombay 3. 100663, August 3, 1959. A collapsible telephone bracket.

Nelson & Company, 62, Swami Pillai Street, Madras. 99846, June 15, 1959. Tamil type fonts. 99848, June 16, 1959. Tamil type fonts. 99670, June 4, 1959. Tamil type fonts.

New age Electrical Works, G. T. Road, Goraya, Punjab State. 100370 and 100371, July 16, 1959. Switch box.

Newton Type Foundry, 80, Wallajah Road, Mount Road, Madras-2. 97559 and 97560, December 13, 1958. Tamil printing types. 99299, April 30, 1959. Tamil printing types. 99300, April 30, 1959. Telegu printing types.

Nihcha Ram, Trading as China Ram, Sindhi Halwai Chowk, Fatehpuri, Delhi 6. 96850, October 18, 1958. Box.

Niranjan Singh & Jaginder Singh of Industrial Area, Ludiana, Punjab, Trading as Jagindara Industries. 97101, November 12, 1958. Chain wheel of bicycle.

Norton & Co., 1-16, Baker Thiruvengada Mudali Street, Madras 7. 97946, January 17, 1959. Type fonts. 98951, April 3, 1959. Type fonts. 99042, April 11, 1959. Type fonts. 101034, September 9, 1959. Type fonts.

Ogale Glass Works Limited, of Ogalewadi, Dist. North Satara, Bombay, India. 99431, May 19, 1959. A lamp shade.

O. Mohanlal Parikh, Kansara's Dehla, Opposite Railway Station, Ahmedabad 2. 98965 and 98966, April 6, 1959. Tiffin carrier.

Pelican Trading Company, 4, Ram Kumar Rakshit Lane, Calcutta-7. 100130, June 29, 1959. Paper clips.

Parkash Type Foundry, 495, Narayan Peth, Poona 2. 96868, October 24, 1958. Printing types. 100628, August 4, 1959. Printing types. Platt Bros (Sales) Limited, of Hartford Works, Oldham, Lancashire, England. 99599, May 27, 1959. Spinning ring.

Prabhudas Kalyanji Thakkar, 105, Princess Street, Bombay-2. 99329, May 6, 1959. A table lamp.

Pragji Mulji & Sons, Plot No. 12, Mangloria Society Garden, Subhas Road, Bombay-24. 98586, February 28, 1959. A tray. 101463 and 101464, October 5, 1959. A tray.

Prakash Udyogalaya, 196, K. A. Girgaum, Gaiwadi, Bombay-4. 99858, June 17, 1959. Tea filter.

Raja Ram Type Foundry, Katghar, Allahabad (U. P.) India. 98388 and 98389, February 14, 1959. Printing types.

Rajinder Kumar Agrawal, 173, Ramesh Dutt Street, Calcutta-6, India. 99939 to 99941, June 24, 1959. Steel clamps for railway wooden slippers.

Raman Padmanabhan Nair, 167-F, Vincent Road, Dadar, Bombay-14. 98796, March 19, 1959. Hand drilling machine.

Ram Chand Sud, 195, Model Town, Jullundur City, E. Punjab. 100036, June 27, 1959. Switch box.

Ram Nath & Prem Nath of 328, Model Town, Ludhiana, Punjab. 97382, December 1, 1958. Pump of oil cans. 97383, December 1, 1958. Pump oil can.

Ram Prakash and Shanti Devi, Trading as Ritz Metal Works, 285, G. T. Road, Gaziabad, Dist. Meerut, U. P. 96442, September 18, 1958. Spring hinges.

Ram Saroop, Railway Road, Kapurthala, Punjab. 100380, July 20, 1959. Non-electric pressure cooker.

Rattan Chand Chadda and Dev Datt Chadda, Trading as Hind Automobiles Corp., 37, Industrial Estate, Okhla, New Delhi-19. 96223, August 28, 1958. Oil pumps.

R. C. Chhanno & Co., 8707, Roshanara Road, Delhi 6, India. 100934, August 25, 1959. A box for the telephone apparatus.

Refrigeration & Appliances Co., Pvt. Ltd., 95, Queen's Road, Bombay-1. 98450, February 19, 1959. An electric iron handle.

Ruby Industries, 2187, Jamuna Bazar, Delhi. 95996, August 12, 1958. A torch.

Sadhu Singh, Avtar Singh and Mahindar Singh, Miller Ganj. Mandi Moongphali, Ludhiana, Punjab. 97684 and 97685, December 22, 1958. Chain wheel of bicycle.

Savitri Devi Rohatgi, Trading as Shankar Metal File Works, 1987, Gali Paranthi Wali, Chandni Chowk, Delhi-6. 100904, August 20, 1959. File.

Shantilal Chhaganlal & Co., 297, Shaikh Memon Street, Bombay-2. 96461 and 96462, September 19, 1958. Clips.

Sharif & Sons, Crown Building, Tambacoowala Street, Moradabad. U. P., India. 96626, October 7, 1958. Handle of spoons.

Shital Prashad Jain, Badu Ram Jain, Parkash Chand Jain and Shanti Sarup Jain, Trading as Agricultural Iron Industries of Baraut, Dist. Meerut, U. P. 96614, October 6, 1958. Wheel for carts.

S. K. Ashoke, 142, Dharamtala Street, Calcutta, India. 100389, July 23, 1959. Jack.

Sourastra Metal Industries, Station Road, Sihor, Saurashtra, Gujarat. 100697, August 7, 1959. A frame for tiffin carrier.

Stainless Steel Agency (Pvt.) Ltd., Gai Wadi, Girgaum Road, Bombay-4. 97580, December 16, 1958. Crusher.

Swadeshi Tin Industries, Kasabpura, Sadar Bazar, Delhi. 98693 and 98694, March 9, 1959. The frame of looking glass.

Swadeshi Type Foundry, 51, Guruvappa Chetty Street, Chintadripet, Madras. 100925, August 25, 1959. Printing types. 100926, August 25, 1959. Printing types.

Swaraj Pal Chopra, Proprietor, Anant Industries, Railway Road. Jullundar City, Punjab. 100452, July 25, 1959. Iron jack plane.

Teluram Lokhram, Kaithal Mondi, Dist. Karnal, Punjab State. 98958, April 6, 1959. Central Bobbin Shuttle race of a sewing machine.

The Asian Scientific Instrument Co., 113, Kamla Market, New Delhi-1. 99228, April 24, 1959. Test Tube holder.

The General Electric Company Limited, of Magnet House, Kingsway, London, W. C. 2, England. 99931 (January 5, 1959). An electric switch fuse.

The National Electrical Industries Limited, Industrial Estate, Lalbaug, Bombay-12. 98813, March 21, 1959. Pedestal grinders. 98814, March 21, 1959. Pump. 98815, March 21, 1959. Bench grinder.

The Patent Tiffin Carrier Sanghvi Co., 110, Shivaji Nagar, Poona-5. 98967, April 6, 1959. Vessel. 100696, August 7, 1959. Tiffin carrier.

The Singer Manufacturing Company of Elizabeth, New Jersey, U. S. A. 98767, March 16, 1959. A sewing machine table under frame. 99317, March 20, 1959. A sewing machine treadle.

Thomas John Robert Bright of 674, Raglan Street, South, Renfrew Ontario, Canada, previously of "The Lodge", Leek Wootton, near Warwick, Warwickshire, England. 97695 (September 30, 1958). A corner piece for use with a draught excluding strip or with a motor body trimming strip. 97694 (October 2, 1958). A draught excluding or sealing strip. 99533 (April 29, 1959). A draught excluding or sealing strip. 99930 (May 14, 1959). A draught excluding or sealing strip. 100513 (June 3, 1959). A draught excluding or sealing strip. 100514, July 28, 1959. A draught excluding or sealing strip.

United Metal Industries of 14, Noormahal Lotus Lane, Calcutta-7. 96497, September 25, 1958. Clamps for railway sleepers. 98818 to 98820, March 20, 1959. Clamps for railway sleepers.

Ved Parkash, House No. W. N. 250, Basti Danishmandan. Jullundur City. 96487, September 22, 1958. Adjustable spirit level.

Zenith Cycle Industries, 9, Fair Bazar, Darya Ganj, Delhi. 96855, October 24, 1958. Cycle fork. *

CLASS 2.—Books and bookbinding of all materials.

NIL

CLASS 3.—Articles composed wholly of India-rubber, wood, bone, ivory, papier mache, celluloid, bakelite, or like substances, or of materials in which such substances predominate (except articles included in Class 10).

Abdul Jabbar, Trading in the name, Shandar Bidi Factory at Lakshmi Talkies Road, Bhopal (M. P.), India. 96623, October 7, 1958. Label.

Aero Modellers 95, Kamla Market, New Delhi-1. 98106 to 98108, January 22, 1959. Toy. 99735, June 8, 1959. Toy.

All Fine Industries, 150, Lower Chitpur Road, Calcutta-1. 99901, June 22, 1959. Toy.

A. Mahadev Ramnath, C/o. Modern Sign Service, 172, Hornby Road, Bombay. 98602, March 12, 1959. Telephone rests.

Artbangle Private Ltd., National Insurance Building, 204, Hornby Road, Bombay, India. 98741, March 13, 1959. Spectacle frames.

Asia Electric Company, G. T. Road, Phagwara (N. Rly.) East Punjab. 98160, January 27, 1959. A cover for 3-pin plug. 98159, January 27, 1959. A switch.

Avtar Singh Galla, 90/31, Malviya Nagar, New Delhi-17. 101050, September 7, 1959. Bottle caps.

Avtar Singh, S/o. Sardar Bhagwan Singh, Trading as Globe Industries, G. T. Road, Delhi. 97670, December 20, 1958. Scale.

Bata Shoe Company Private Limited, 30, Theatre Road, Calcutta-16. 96783 and 96785, October 14, 1958. A sandal strap. 99358 and 99359, May 11, 1959. A sole for footwear.

Bharat Carbon & Ribbon Manufacturing Company Limited, The. N-75, Bombay Life Building, Connaught Circus, New Delhi. 99835, June 15, 1959. Box.

Bharat Plastics Limited, 6, Old Post Office Street, Calcutta-1. 99428, May 19, 1959. A ball. 99667, June 3, 1959. A playing board for a game.

Bir Bal Sareen, 1225 Mahal Serai, Kashmiri Gate, Delhi, India. 99298, April 29, 1959. A handle.

Bombay Leather Company, 402, Cadell Road, Bombay-28. 98053, January 19, 1959. Hair saddle. 98054, January 19, 1959. Hair saddle.

Bright Brothers Private Limited, 156A, Tardeo Road, City of Bombay. 97096, November 8, 1958. Ice ball moulds. 97396, December 3, 1958. Fly killer. 97398, December 3, 1958. Mats. 98736, March 12, 1959. Toy spinning plates. 97397, December 3, 1958. Mats. 97953, January 12, 1959. Plastic box. 99391, May 13, 1959. Basket. 100238, July 9, 1959. Plastic comb cover. 100835, August 17, 1959. Plastic container. 101192, September 11, 1959. Shopping bag.

Champa Lal Jain, Ram Nath Jain & Krishna Lal Jain of R. K. Trading Corporation, Delhi-6. 96536, September 29, 1958. Container.

Chander Parkash and Mangal Singh, (1) of Basti Sheikh Jullundur City and (2) of Bazar Sheikhan, Jullundur City. 97848 to 97850, January 5, 1959. Cabinet of a radio set.

Chetana Trading Corporation, 10, Nanabhoy Lane, Bombay-1. 96739. October 11, 1958. A pendant holder. 97102, November 12, 1958. A socket for 2-pin plug.

Darius Jehangir Lawyer, 16, Horniman Circle, Fort, Bombay-1. 98956, April 9, 1959. Bracket for supporting soap. 100155, July 2, 1959. A plate for holding drinking glass, wine glass, soap plate, dinner service plates and the like. 101839, October 28, 1959. A pump-cum-siphon device for bottle or the like containers.

Deluxe Plastics Products of 282, Thambu Chetty Street, Madras-1. 98444, February 18, 1959. Toys. 100290, July 13, 1959. Toys.

Dharam Pal, Partner, M/s. The Kashmir Electric Co., G. T. Road, Phagwara. Punjab. 100451, July 25, 1959. Electric lamp holder.

Doulat Nenumal Sipahimalani, 28, Mahatma Gandhi Road, Poona-1. 97381, December 1, 1958. Sole for footwear.

Dunlop Rubber Company Limited, of Fort Dunlop Erdington, Birmingham 24, England. 96782, June 24, 1958. A tyre for a vehicle wheel. 97210, November 17, 1958. A tyre for a vehicle wheel. 97324, July 16, 1958. A tyre for a vehicle wheel. 97711, December 24, 1958. A tyre for a vehicle wheel. 97905, January 8, 1959. A tyre for a vehicle wheel. 98451 (September 5, 1958). A tyre for a vehicle wheel. 98703 (October 3, 1958). A tyre for a vehicle wheel. 98793 (November 20, 1958). A tyre for a vehicle wheel. 98881, March 28, 1959. A tyre for a vehicle wheel. 99083 (October 17, 1959). A tyre for a vehicle wheel. 99239, April 24, 1959. A tyre for a vehicle wheel. 99836 (January 7, 1959). A tyre for a vehicle wheel. 99929 (January 7, 1959). A tyre for a vehicle wheel.

Dwijendra Nath Chowdhury, 35, Paikpara Road, Calcutta-29, India. 98630 and 98631, March 4, 1959. Toys.

Eagle Plastic & Industrial Corporation, 15, Cawasji Patel Street, Fort, Bombay-1. 100156, July 2, 1959. Ash tray and the like.

Flex Cord Corporation, 23A, Suryodaya Mill Compound, Tardeo Road, Bombay-7. 96419 to 96428, September 16, 1958. Electrical plug.

G. M. Pethani, 55, Shanker Lane, Kandivli, Bombay. 97686, December 23, 1958. Clothes racks.

Harjit Singh Khanna, 116, Chittaranjan Avenue, Calcutta. 96806 and 96807, October 15, 1958. Hair clips. 96854, October 18, 1958. Hair clip. 97986 to

97988, January 13, 1959. Hair clips. 98071 and 98072, January 20, 1959. Hair clips. 98122, January 24, 1959. Hair clip. 98197, January 31, 1959. Hair clip. 98255, February 5, 1959. Hair clip. 98533, February 23, 1959. Hair clip. 99053 and 99054, April 13, 1959. Hair clips. 100895 and 100896, August 19, 1959. Hair clips.

Hoover Limited, Perivale, Greenford, Middlesex, England. 96620 (May 27, 1958). Outlet pipe for a domestic laundry machine.

Idento Private Limited, 12, Bell Lane, Bombay-12. 98603 and 98604, March 2, 1959. Electric holders.

Indar Plastic Works, 65A, Neem tola Ghat Street, Calcutta-6. 100681, August 6, 1959. Tiffin carrier.

Jagdish Lall Sehgal, Trading as Jagdish Bakelite & Plastic Works, XV643, Mohalla Bawii, Paharganj, New Delhi-1. 100312, July 14, 1959. Tin cover.

Jai Narayan Singh of Block B-111-112, 71, Canning Street Calcutta-1. 98727, March 12, 1959. Float valves.

Jalan Chemical Works, 94, Lower Chitpur Road, Calcutta-7, India. 100683, August 6, 1959. Cartons.

James Winston Stott, 15, Hutchinson Road, Norden, Rochdale, Lancashire, U. K. 98050, January 17, 1959. A loom picker.

Joyland's Educational Toys and Games Manufacturers, 22F, Kamla Nagar, Delhi. 100125, June 29, 1959. Educational toys.

Kalpna Products, Shop No. 28, 2nd. Ganaswadi, Bombay-4. 100706, August 11, 1959. A plug.

Kersons Manufacturing Company of India Private Ltd., The. Gopal Nivas, Lohar Chawl, Bombay-2. 98158, January 27, 1959. (A ceiling rose).

K. G. Menda, Sole Proprietor of M/s. Orion & Co., 4, Ram Kumar Rakshit Lane, Calcutta-7. 98110, January 22, 1959. Pin cushion. 101068, September 8, 1959. Paper weights.

Kosmek Plastics Manufacturing Private Ltd., of Cecil Court, Landsdowne Road, Appollo Bunder, Bombay-1. 98954 and 98955, April 3, 1959. Finishing float. 99332, May 9, 1959. Plastic platter. 101201, September 14, 1959. Bath brush, hair brush, and the like brush.

Kuldip Chand Nayyar Awaaz Radio Sales & Service, Ludhiana, Punjab. 99390, May 13, 1959. Radio cabinet.

Kuldip Singh, Om Parkash, Ram Parkash, Anand Saroop Kapur, Trading as Nath Footwear Co., 8, National Shoe Market Agra, U. P., India. 99426, May 18, 1959. Sole & heel for footwear.

Manubhai Narabhai Patel, 454, Sandhurst Road, Bombay-4. 97485, December 8, 1958. Lamp shade made of plastic material.

Meka Plastic Moulders, Goregaon (East), Greater Bombay. 101317, September 23, 1959. Protector-cum-french curve-cum-circle gauge.

Metal Industries, 1, Vallabh Nagar, Borivili (West), Bombay. 98529, February 21, 1959. Electric switches.

Mohamed Inayatullah, 354, Old Poor House Road, Bangalore, Mysore. 99302 and 99303, May 1, 1959. Sole of chappal.

Morphy Richards Limited, St. Mary Cray, Orpington, Kent, England. 96619 (May 16, 1958). An electrically operated dry shaver.

Motco Plastics, 1st Marine Street, Fort, Bombay-1. 97042 to 97044, November 4, 1958. A table calender. 97238, November 30, 1958. The display window of a table calendar. 97229, November 30, 1958. Table calendar. 100682, August 6, 1959. A wall calendar. 99149, April 18, 1959. A table calendar. 101567, October 14, 1959. A Comb.

M. S. Venkataraman, of Radha Nagar Chromepet, P. O. Chinglepet, Madras. 96389, September 13, 1958. Ink fillers-cum-vaginal syringes.

Nandlal Lakshmichand Asrani, Proprietor, Nandlal & Company of Dady Santok Lane, Dhobi Talao, Bombay-2. 98795, March 19, 1959. Lamp shades. 99902, June 22, 1959. Lamp shades.

National Carbon Company (India) Ltd., of 1 & 3, Brabourne Road, Calcutta-1. P. O. Box No. 2170. 99831, June 12, 1959. Lens ring for a flash light. 99830, 99832 to 99833, June 12, 1959. Lens ring for a flash light.

National Rubber Manufacturers Limited of "Leslie House", 19, Chowringhee, Calcutta-13, India. 99307, May 2, 1959. A tyre for vehicles.

Navinchandra Gordhandas, Vipinchandra Gordhandas, Suryakant Gordhandas, Niranjana Gordhandas and Shantilal Muljibhai Patel, Trading as Parko Industries of Khadia, Char Rasta, Opp. The Ahmedabad Peoples' Co-operative Bank, Ahmedabad-1. 97803, January 2, 1959. Electrical plug top.

N. V. Philips' Gloeilampenfabrieken of Emmasingel 29, Eindhoven, Holland. 101439 (June 12, 1959). A dry shaver.

Pilot Pen Co., Ltd., The. of 7, 2-chome, Kyobashi, Chuo-ku, Tokyo, Japan. 98445, February 18, 1959. Fountain pens.

Pioneer Plastic Works Private Ltd., 9, Ezra Street, Calcutta-1. 98952, April 3, 1959. Mats.

Precious Industries, 40, Sonari Road, Vile Parle (East), Bombay-24. 98587, February 28, 1959. A pendant holder. 100600, August 3, 1959. A ceiling rose.

Ramaiah Madhavaier Venkatachari, known as R. M. Venkatachari, 45, Mahal Second Street, Madurai, Madras State. 97078, November 4, 1958. Label.

Ranbaxy & Company Private Ltd., 16, Marina Arcade, New Delhi. 97364, November 28, 1958. Box.

Ratan Plastics Private Limited, 43/1, Strand Road, Calcutta. 96489, September 23, 1958. A barbar comb.

Sakti Button Factory, 40, Bapubhai Vashi Road, Vile parle (West), Bombay-24. 100553, July 30, 1959. Collar fittings. 101755, October 22, 1959. Collar fittings for dresses.

Sawarn Singh, of Phagwara dist., Kapoorthala, Punjab. Trading as Birdi Mechanical Works, 99011, April 30, 1959. Wrapper.

S. M. Vakeel, 30, Amirali Lane, Bombay. 96160, August 26, 1958. Drawing instruments.

Stikfix Limited, Hilbre Street, Birkenhead, Cheshire, England. 100458, July 27, 1959. A tooth brush holder.

Super Traders, Swami Narayana Building, 24, 3rd Bhoiwada, Bombay-2. 97672, December, 22, 1958. Electric pins of plugs.

Swadeshi Industries Limited, 33, Netaji Subhas Road, Calcutta. 95604, July 8, 1958. Plug socket.

Synthetic Moulders Limited, 53, Netaji Subhas Road, Calcutta-1. 100750, August 12, 1959. Soap cases.

Tara Chand, 3268 Gali Faratullah Khan, Delhi. 96475, September 22, 1958. Toy cinema.

Thanu Chettiar, Bhaghavathi, Market Junction, Nagerkoli, Kanyakumari, Madras State. 98339, February 9, 1959. The table mirror stand.

Tirmizi & Co. of 369, Sheikh Memon Street, Bombay-2. 98008 and 98009, January 16, 1959. Toy cinema.

Varma Industrials Private Limited, Domlur Road, Hindusthan Aircraft, P. O. Bangalore, Mysore State. 99301, April 30, 1959. P. V. C. coated fabrics.

Venus Industries (India), of Delhi, 1227, Mehal Sarai, Kashmiri Gate, Delhi. 100289, July 13, 1959. Wire connector box.

Vijay Bakelite Trading Co., 70-72, Chakla Street, Bombay-3. 99393, May 16, 1959. Pourer for bottles.

Virco Industries, Trading as Virajlal Ratilal & Co., Nanavati Mansion, Nakhoda Street, Bombay-3. 101247 and 101248, September 18, 1959. Spectacle frames.

Werner Rudolph Stoessel, 63, New Marine Lines, Bombay-1. 99012, April 8, 1959. A box calender.

Yagdutta Tandon, 17, Justice Dwarka Nath Road, Calcutta-20. 98794, March 19, 1959. Pencil cutter.

CLASS 4.—Articles composed wholly of glass, earthenware, or porcelain, clay (burnt or baked), or cement or in which such materials predominate.

Abdeally Mohsin Motiwalla and Soeb S. Galely, Trading as Excel Cosmetics Corporation, 71, Canning Street, Calcutta-1. 98632, March 4, 1959. Bottle. 100756, August 12, 1959. Jars.

Adarsh Chemical Works, Motisingh Bhumion Ka Rasta, Jowhri Bazar, Jaipur, Rajasthan. 98947, April 2, 1959. Bottles.

A. Kalvert & Co., 90/92, Mazagaon Road, Bombay-10. 96687, October 9, 1958. A bottle.

Alphe Foods & Chemicals Private Limited, 142, Basanta Lal Saha Road, Calcutta-33. 99855, June 16, 1959. Bottle.

Bird's Table Waters, Colaba, Bombay-5, India. 99306, May 2, 1959. Bottle.

Cook & Coxwill's, Ferozabad, Distt. Agra, U. P., India. 98172, January 29, 1959. Glass jars.

Eagle Laboratories Private Ltd., 12/2, Belegkata Main Road, Calcutta-10. 96418, September 16, 1958. Bottle.

E. S. Patonwala, 62, Connaught Road, Bombay 27, India. 100763, August 10, 1959. A bottle.

Harbans Singh & Kripal Singh, Trading as Webden Sales Corporation, Narain Market, Sadar Bazar, Delhi-6. 101560, October 13, 1959. Ink pots. 101586, October 17, 1959. Carton.

Indo-Iran Industries (India), 283, Thakurdwar Road, Bombay-2. 100096, June 29, 1959. Bottle.

(Mrs.) Keron Bala Halder, C/o. Dr. A. Halder, 1/142, Naktala Govt. Colony, Calcutta-40. 99000, April 7, 1959. Smokeless oven.

Krishna Lall Varma, Prop. M/s. K. L. Varma & Sons, Gandhi Road, Dehradun. 98331, February 7, 1959. Closet.

Krishan Mohan Kapoor, 548, Model Town, Jullundur, Punjab. 98755, March 14, 1959. Ink pots.

Laxmi Narayan Daga, Trading as Allen & Benson Co., of 3/1, Mandeville Gardens Road, Calcutta-19. 96189, January 22, 1959. Bottle.

Madhav Jivaji Nerurkar, Manji Building, Tukaram Javji Road, Bombay-7. 96856, October 24, 1958. A bottle.

Manmohan Singh Bhasin, Trading as Marco Traders, Marco Building, 12, Chamelian Road, Delhi-6. 99309, May 2, 1959. Container.

Narottam Karsondas Bhimani, Ajitsinh Karsondas Bhimani, & Kishore Madhavsingh Bhimani, 222, Sir Mathuradas Visanji Road, Andheri, Bombay-41. 99018 to 99020, April 9, 1959. Base for electric switch terminals.

Nawratan Mall, 41B, Brajadulal Street, Calcutta-6. 100930, August 25, 1959. Bottle.

Pravin Laboratory, Bhatnat Nagar, Grant Road, Bombay-7. 97579, December 16, 1958. Bottles.

Secretary to the Government of Bombay, Agriculture & Forests Department. 99834, June 13, 1959. Bottles.

Spencer Aerated Water Factory Private Limited, 87, Dr. Suresh Sircar Road, Calcutta. 100327, July 15, 1959. Glass bottles.

Swastik Agency, 165, Govindappa Naick Street, Madras-1. 96541, September 30, 1958. Bottle.

Upper Ganges Sugar Mills Ltd., Trading as Birla Laboratories, 2, Beerpara Lane, P. O. Ghugudanga, Calcutta-30. 99392, May 18, 1959. Containers.

Weddel (India) Private Limited, 103, Park Street, Calcutta-16. 99885, June 22, 1959. Bottle.

Yash Paul Sethi, F. 258, Outram Lines, Kingsway, Delhi-9. 98344, February 10, 1959. Ink pot.

CLASS 5.—*Articles composed wholly of paper, card-board, mill-board or straw-board (except articles included in Class 2, and paper hangings), or in which such materials predominate.*

Abbasbhai Alihusain of the firm Rexona Stove Depot, 32, Dhahoo Street, Bombay-3. 97797, January 2, 1959. Label.

A. C. Nadar, Known as A. Chinnakany Nadar and Trading as Arumuga Vilas Soapnut Powder Company, No. 1, Police Station Lane, Madurai, Madras. 97593, December 17, 1958. Label.

A. K. Naidu Sundaram, Proprietor-King Manufacturing Company, 54, Thayar Sahib Street, First Lane, Mount Road, Madras-2. 96686, September 13, 1958. The Label.

Anil Playing Card Manufacturing Co., 441, Katra Nabi Bux Sadar Bazar, Delhi 6. 97576, December 16, 1958. Playing card. 97577, December 25, 1958. Playing card.

Assam Biri Factory Private Ltd., P. O., Dhubri, Assam. 98591 and 98592, March 2, 1959. Label. 98593, March 2, 1959. Label. 99013, April 8, 1959. Label.

Associated Imports & Exports Company Private Limited, of P-6, Mission Row Extension, Calcutta-1. 98811, March 21, 1959. Cartons.

A. V. Rao Velayutha Mudaliar Sons, of East Street, Ambassamudram S. R., Dt. Tinnevely. 95931, August 7, 1958. Label.

Badri Prasad Prabha Shankar Panday, Collectorgunj, Kanpur, U. P., India. 97361, November 27, 1958. Label.

(1) Bahadur mall, (2) Mangilal, (3) Dhanraj and (4) Harekchand, Trading as Sha Nirbhalal Bahadur mall, 48, China Bazar Road, Madras-1, India. 101052, September 7, 1959. Carton.

Baker & Co. Private Ltd., Oomrigar Building, 1st floor, opp. Crawford Market, Bombay. 97038-90741., November 4, 1958. Ornamental paper card board, Mill board or Straw Board for making cups, trays etc.

Bakshman Sait Sahib Trading as Minor Sait Beedi Factory, 47, Samaspiram Street, Tiruchirapalli 8, South India. 98828—29, March 26, 1959. Label.

B. C. B. Studio & Publicity Service, 302, Upper Circular Road, Calcutta-9. 99605, May 29, 1959. Label. 100840 to 100842, August 17, 1959. Label.

Bijoy Krishna Bhadra & Benoy Krishna Bhadra, P. O. Madanpur, Dt. Nadia, West Bengal, India. 99891, June 22, 1959. Label.

Bloomfield Trading Co., G. T. Road, Gaziabad, U. P. India. 100552, July 30, 1959. A carton.

Boota Ram Chopra, prop., Boota Ram & Sons, Naya Bazar, Saharanpur, U. P. India. 100933, August 25, 1959. Label.

Brooks Cable Works, of 32, Vithaldas Road, Devkaran Mansion, 1st floor, Block No. 8, Bombay-2. 96029, August 14, 1958. Label for cable reel.

Chandrika Prosad Ganesh Das, Khojwan Bazar, Varanashi, U. P., India. 99597, May 27, 1959. Label.

Chandulal Agarwala, of 402, Upper Chitpur Road, Calcutta-7. 98810, March 21, 1959. Label. 98817, March 23, 1959. Label.

Chhotey Lal proprietor of M/S. Lalamal Baijnath Attar of Madar Gate, Ajmer, Rajasthan, India. 98594, March 2, 1959. Label.

Chimanlal Monilal Shah, of Panch Bhai's Street, Rajendra Chawl, Ahmedabad. 98238, February 4, 1959. Label.

Chinu Bhai Kashibhai Patel, 512, Kachwada, Raipur, Ahmedabad, Bombay. 97891, January 6, 1959. Label.

Chunilal Popatlal Shah Trading as Mahavir Agarbatti Works, opp. Jain Temple, Jam Nagar, Bombay. 98585, February 28, 1959. Wrapper.

Dr. S. N. Gupta & Sons, P. O. Moradabad, U. P. India. 96625, July 11, 1958. Label.

Eagle Playing Card Mfg. Co., Lal Kuan, Delhi. 96196 and 96206, August 27, 1958. Cartons.

East India Marketing Corporation, 3, Madge Lane, Calcutta-16. 99014, April 3, 1959. Box.

E. M. Kamruddin & Co., 102, Bhajipale Lane, Bombay-2. 100907, August 21, 1959. Label.

Empire Playing Cards Company, 5115 Kesab Pura, Sadar Bazar, Delhi. 95774, July 24, 1958. Playing card. 95776 and 95777, July 24, 1958. Carton.

Empire Vermicelli Company, 52, Choolal Bazar Road, Madras-7, India. 96391-392, September 13, 1959. Blanks for paper and cardboard packages.

Enarpee Products (India) Inc., 60, Chhoti Gwal Toli, Indore (M. P.), India. 100949, August 27, 1959. Cartons.

G. C. Chetty, proprietor of G. Ganamukala Lungi Co., 279, Linghi Chetty Street, Madras-1. 98001, January 14, 1959. Labels.

Girdhari Lal, Trading as Evergreen Industries, 61/26, W. E. A., Rohtak Road, New Delhi. 101266, September 10, 1959. Label.

Gokaldas Shamandas Sevwala, outside Dariyapur Gate, Ahmedabad, Bombay. 97889, January 6, 1959. Label.

Govindlal Achrat Lal, Juna Sher Haszarwala of Juni Musabai Bank near Pratap Fulkir, Ahmedabad. 97199, November 17, 1958. Label.

Great Eastern Electroplaters Limited, 28, South Road, Allahabad, U. P., India. 96622, October 6, 1959, Carton. 96549, October 17, 1958. Electric torch. 96982 to 96987, October 28, 1958. An electric torch.

G. S. Kashyap & Sons, Pataudi House, Darya Ganj, Delhi, India. 100288, July 13, 1959. Label.

Gurbax Singh, 53, Ghaffar Market, Karol Bagh, New Delhi. 99890, June 22, 1959. Label.

Hans Raj Grover, Main Bazar, Ferozepur City, Punjab. 99952, June 26, 1959. Label.

Hiralal Arora, proprietor of Hindustan Cosmetics Products, 197, Mahatma Gandhi Road, Calcutta. 101324-25, September 23, 1959. Cartons.

Hira Nand Mal Chand, of Forgoshan Road, Ahmedabad, India. 100267, July 13, 1959. Label.

Huscini Adamally proprietor of the firm Young India Stove Mfg. Co., 39-A, Pira Lane, Pathanwadi, Bombay-9. 98055, January 19, 1959. Label.

Indian Thread Company, 10, Nagdevi Street, Bombay-3. 98217, February 2, 1959. Label.

International Chemico, 78/2A, Manasatala Lane, Calcutta-23. 97950 to 97952, January 12, 1959. Label.

Jakob Hill Industries (India) Brij Bhawan, Barshi Street, Aligarh, U. P., India. 97945, January 9, 1959. Label.

Kali Charan Das Trading as Meerut Bidi Factory, Kamboh Gate, Meerut, U. P., India. 100456, July 27, 1959. Label. 100392, July 24, 1959. Label.

Kamla Prashad, of 4802, Cloth Market, Ram Bazar, Delhi-6, India. 98094, January 21, 1959. Label.

Khalil Ullah S/o. Haji Kudrat Ullah, Binda Ganj, Agra. 98531, February 23, 1959. Label.

Kishan Chand, Nargin Das & Hira Lal, Trading as Jone White Footwear, Jaswant Building, Agra, U. P., India. 99645, June 1, 1959. Label.

Koodalinga Nadar Lakshmanan Trading as Honest Corporation, 126, Chittrakara Street, Madurai, Madras. 97977, November 6, 1958. Labels.

Krishna Confectionery Works, 3549, Kalupur Chakla, Sodagar Pole, Ahmedabad. 99043, April 11, 1959. Label.

Krishna Industries, Colgong, Bihar. 97588, December 16, 1958. Label.

Krishnan Chettiar Govindan Known as K. Govindan, 10, East Nawalayia Street, Madurai, Madras. 99644, June 1, 1959. Labels.

Kumar Ram proprietor of Kumar & Co. of P. O. Sasaram Dt. Shahabad, Arrah, Bihar. 98237, February 4, 1959. Label.

Kumud Bandhu Saha, Pro. Asoke Biri Factory, P. O. Gouhati, Dist. Kamrup, Assam. 96780, October 14, 1959. Label.

Lucky Biscuit Co., Hajiganj, Patna 8, India. 101437, September 30, 1959. A Wrapper.

Madhav Lal Son of Premchand Thakkar, Proprietor of Kalpana Chemical Industries, Navyug Colony, Gita Mandir Road, Ahmedabad, India. 100184, July 6, 1959. Label.

Mahaboob Ali Khan, proprietor of Associated Perfumery Works, Madrakhan Mohalla, P. O. Ramanagaram, Dt. Bangalore, Mysore, India. 100618, August 4, 1959. Label.

Mangli Prasad Chowrasia, Munshi Ganj, P. O. Sandi, Dt. Harodi (U. P.). 97890, January 6, 1959. Label.

Manohar Das Modak & Bros., Provincial Road, Bankura, West Bengal. 97888, January 12, 1959. Label.

Manohar Singh, 10074, Gali Zamirwali, Nawabganj, Delhi. 96995, November 1, 1958. Label.

M. Bright & Co., Mohalla Pilkhan Tala, Sani, Saharanpur, U. P. India. 99381, May 12, 1959. Label.

Meer Ghani Rowthex Sheik Abdul Kasim Known as M. Sheikh Abdul Kasim Trading as M. Shuma, Door No. 13, 2nd Street, Tallakulam P. O. Madurai, Madras. 99638, March 30, 1959. Labels.

Metro Playing Card Company, G. T. Road, Gaziabad, U. P., India. 100675, July 30, 1959. Playing cards.

Metro Playing Card Company, of Bellasia Road, Byculia Compound, Bombay. 98275, February 6, 1959. Playing card.

Mohammad Hamid Ansari, House No. 80, Dondipur, Allahabad, U. P., India. 96484, September 24, 1958. Label.

Mohammed Ishaq, Halima Bibi and Mohammed Nafee Trading as N. Aromatic Co., 45/52, Gaya Prashad Lane, Kanpur, U. P., India. 96324-96327, September 8, 1958. Carton.

Mon Mohan Roy & Co., 5/1A, Sasi Bhusan De Street, Calcutta-12. 99856-99857, June 17, 1959. Label.

Mulla Tuberbhai, Mulla Ebrahimbhai Askiwalla of the firm Laxmi Thread ball Factory, Ranipura Gate No. 5, Indore City (M. P.). 97796, January 27, 1959. Label.

Mysore Chemical Products, 85A Ripon Street, Calcutta-16. 98005—98006, January 15, 1959. Cartons.

Naresh Agarwal, proprietor T. M. C. Aushadalaya, Lucknow, U. P., India. 99313, May 4, 1959. Label.

Naresh Chandra Sarkar, 78/1, Harrison Road, Calcutta. 95626, July 11, 1958. Wrapper.

Nayab Bidi Factory, Lalbaug, Moradabad, U. P., India. 95644, October 14, 1958. Label.

Nihal Chand, proprietor Goodluck Chemical Works, Sadar Bazar, Delhi-6. 100550, July 30, 1959. Label. 100551, July 30, 1959. A cream pot.

N. S. Ramalingaier, Door No. 4, Mahal. V Street, Madras. 97696, December 23, 1958. Label.

Orient Fireworks Industries, 106, Dinigul Road, Madurai, Madras. 97230, November 21, 1958. Carton.

Ofipin Private Ltd., 297, Sheikh Memon Street, Bombay-3. 97954, January 12, 1959. Cartons.

Pabitra Hindu Oil Mills & Kaluram Mahadeo Prosad, 1 Mechua Bazar Street, Calcutta. 97045, November 4, 1958. Label. 97046, November 4, 1958. Carton.

P. A. K. Ayyasami Nadar, proprietor, Pakalam Oil Mills, Mahalipatti Road, Madurai, Madras. 99710, June 6, 1959. Label.

Pindi Boot House, Kinari Bazar, Agra, India. 98121, January 24, 1959. Label.

Piskala Ramasami Iyer Ramaier, 13, Chokka Kottan Street, Madurai, Madras. 99378, May 12, 1959. Labels. 99427, May 19, 1959. Labels.

P. N. P. Nadar, P. N. Swaminathan, P. N. Perinham, P. N. Ganamuthu and P. N. Siluvaimuthu Trading as P. Paranjothi Nadar Peerinha Vilas, Sehaithiyapuram Post, Tuticorin, Madras. 98004, January 15, 1959. Label.

Podar Govindappa Mudaliar Narayanaswamy Mudaliar and Podar Govindappa Mudaliar, Subramania Mudaliar, Trading as The Gudivattam Lungi Company, Pichanoor, Gudivattam, Madras State. 97262, November 24, 1958. The Label.

Primo Cosmetics, 189/191, Ramnad Road, Madurai, Madras. 99315-99316, May 4, 1959. Labels.

P. R. M. Vedivelu Mudaliar, Sole proprietor of P. R. Vedivelu Mudaliar and Son, 28, Mulia Sahib Street, Madras-1. 97190, November 14, 1958. Label.

P. S. P. Shunmugam, P. L. P. Manikam & P. Kannappan Trading as Raja Aerated Water Works, 1/22, Kallukaran Street, Mylapore, Madras-4. 97599, December 17, 1958. Label.

Radhakishan Modi, Trading as Associated Traders, 10, Jackson Lane, Calcutta-1. 98073, January 20, 1959. Cartons.

Radhashyam Tirthabasi Paul, P. O. Lumding, Dt. Nawgang, Assam. 99380, May 12, 1959. Label.

Raja Corporation, Kalupur Road, Ahmedabad, Bombay. 100950, August 27, 1959. Label.

Ram Bharash & Brothers, of P. O. Jamalpur, Dt. Mirzapur, U. P., India. 96624. July 11, 1958. Label.

Ram Vir Trading as Standard Electric Works, Railway Road, Jullundar City, Punjab. 101231, September 15, 1959. Carton.

(1) Sankaralinga Nadar Marimuthu Nadar Nagarathna Nadar, (2) Sankaralinga Nadar Marimuthu Nadar Velayatha Nadar, (3) Sankaralinga Nadar Marimuthu Nadar Subramaniya Nadar and (4) Sankaralinga Nadar Marimuthu Nadar Periyaswami Nadar of Perambula Chetty Street, Nashermanpet, Madras-21. 99293, April 29, 1959. Label.

Satya Narain Lal, Mandi Khulda, Allahabad, U. P., India. 99247, April 27, 1959. Labels.

Shamim Saheed Khan, Vill. Agapur, P. O. Bhikari, Dt. Ghazipur, U. P., India. 99688, June 5, 1959. Labels.

Shri Ramesh Chandra, Raja Mandi, Agra, India. 96043, August 14, 1958. Label.

(1) Sinnayan Sellam Arunachalam Chettiar and (2) Sinnayan Sellam Balkrishnan Chettiar Trading as "Selvamaligai", 137-143, South Avanimoola St., Madurai, Madras. 101164, September 10, 1959. Label.

S. M. Pandit & Brothers, of New Town, Alipurduar, Jalpaiguri, West Bengal. 95932, August 7, 1958. Label.

Societe Omaro S. A. (Pondée a Paris en 1928) of 13 rue de la Nation, Paris 18, France. 101436, September 30, 1959. A blank for a slide rule cursor.

Sohanraj Bhaboetmal Doshi, 14/15, Lachmidas Street, Madras-3. 99017, April 9, 1959. Label.

Someshwar Datt Avasthi, Trading as Shishupal Pharmacy, Sitapur, U. P. India. 99310—99311, May 2, 1959. Carton.

Syed Zahir Hussain of Mohalla Sarai Kohna, P. O. Amroha, Dt. Moradabad, U. P., India. 99814, June 11, 1959. Label.

T. A. Nadar Subha, A. T. A. Nadar Subha, T. A. Nadar Subha Baburaj, T. A. Nadar Subha Chellaya and T. A. Nadar Subha Ambi, Trading as T. A. S. Ratham Bros., No. 7, Gollavar Agraharam Road, Washermanpet, Madras (India). 96046, August 16, 1958. Label.

Tarachand Kayal, proprietor of Kayal Commercial Co., of 3, Madge Lane, Calcutta-16. 99889, June 22, 1959. Wrapper.

Tibbet Musk Depot, Purana Bazar, Ludhiana, India. 97196, November 17, 1958. Carton.

Vallabh Dass Jain, of Dal Bazar, Ludhiana, East Punjab, trading as Dhanpat Rai Walite Ram. 98759, March 16, 1959. Wrapper.

Vindhya Pradesh Mining Works, C/o. Hanuman Prasad Pragdas, 157, Netaji Subhas Road, Calcutta-1. 98056, January 19, 1959. Label.

V. S. N. Chelliah Nadar, trading as V. S. Chellam Soap Factory, 40, Amman Sannathi & also of 163C Ramnad Road, Madurai, Madras. 99292, April 29, 1959. Label.

Weddel (India) Private Limited, 103, Park Street, Calcutta-16. 99884, June 25, 1959. Label.

Wire Pin Industries, 22, Saraswati Mahal, 216, Carnac Road, Bombay-2. 98406, February 16, 1959. Carton.

CLASS 6.—Articles composed wholly of leather or in which leather predominates, not included in other classes.

James Winston Scott, 15, Hutchison Road, Norden, Rochdale, Lancashire, U. K. 98051, January 17, 1959. A loom picker.

Tara Chand Sarangal, President-Citizens Sports (Jul) Co. Operative Industrial Society Ltd., 32, Basti Nau, Jullundar. Punjab. 98575, February 20, 1959. Football, Volleyball and basketball covers.

CLASS 7.—Paper hangings.

NIL

CLASS 8.—Carpets, rugs and floor coverings in all materials.

Pioneer Plastic Works Private Ltd., of 9, Ezra Street, Calcutta-1. 97709, December 29, 1958. Soap cases. 100529, July 29, 1959. Container.

CLASS 9.—Lace.

Hindusthan Embroidery Mills Private Ltd., of Cheharta (Amritsar) Punjab. 97578, December 15, 1958. Embroidered lace. 98622-98623, March 3, 1959. Embroidered lace. 98687, March 7, 1959. Embroidered lace.

CLASS 10.—*Boots, shoes and the like footwear.*

Bharatendu & Sons, 43, Connaught Circus, New Delhi. 100549, July 30, 1959. Chappal.

Colonel Sardar Naunihal Singh, Sardarni Gurdial Kaur, Sardarni Surinder Kaur & Sardar Sukhinder Pal Singh, trading as Capital Boot House, 24B Connaught Place, New Delhi. 97234, November 22, 1958. Footwear.

CLASS 11.—*Millinery and wearing apparel (except articles included in Class 10).*

C. S. Thajuddia of Nattaim, Abhiramam, Ramnad, Madras. 97561, December 12, 1958. Neck ties.

S. Gupta, resident of Gulzar Bhawan, 2774, Gali Arya Samaj, Bazar Sitaram, Delhi. 97261, November 24, 1958. Pullovers.

CLASS 12.—*Goods not included in other classes.*

B. C. B. Studio & Publicity Service, 302, Upper Circular Road, Calcutta-9. 99606, May 29, 1959. Woven label.

Mahesh Chandra Garg, trading as Eastern Casket Company and also as Asiatic Art Gallery, 6242, Namak Mandi, Mahesh Kung, Agra, U. P., India. 99687, June 5, 1959. Emblem of zari. 99629, June 12, 1959. Emblem of zari. 99647, June 16, 1959. Emblem of zari. 99868, June 19, 1959. Emblem of zari.

Resham Singh, proprietor of Agra Soap & Chemical Works, Khandari Road, Agra, U. P., India. 99099, April 16, 1959. Soap cakes.

Sanjhi Ram, Mandi Fenton Gunj, Jullunder City, Punjab. 97355, November 27, 1958. Cakes of soap.

CLASS 13.—*Printed or woven designs on textile goods (others than checks or stripes).*

Ahmedabad Advance Mills Ltd., The. Bombay House, Bruce Street, Fort, Bombay-1. 97222 to 97227, November 12, 1958 ; 97247 to 97250, December 2, 1958 ; 97688 to 97693, December 23, 1958 ; 97892 to 97897, January 7, 1959 ; 97947 to 97949, January 12, 1959 ; 98045 to 98048, January 17, 1959 ; 98195 to 98196, January 31, 1959 ; 98251, February 5, 1959 ; 98326 to 98330, February 7, 1959 ; 98740 to 98750, March 14, 1959 ; 98823 and 98824, March 26, 1959 ; 98993 to 98997, April 6, 1959 ; 99087 and 99088, April 16, 1959 ; 99245 and 99246, April 27, 1959 ; 99330, May 7, 1959 ; 99333 and 99334, May 9, 1959 ; 99386 to 99389, April 29, 1959 ; 99639, May 20, 1959 ; 99716 to 99718, June 6, 1959 ; 99393 and 99894, June 22, 1959 ; 100165 and 100166, July 5, 1959 ; 100180 to 100183, July 6, 1959 ; 100236 and 100237, July 9, 1959 ; 100318, July 14, 1959 ; 100375 and 100376, July 30, 1959 ; 100575 and 100576, August 1, 1959 ; 100592, August 1, 1959 ; 100824 to 100826, August 17, 1959 ; 101168 to 101172, September 10, 1959 ; 101232, September 12, 1959 ; 101450 to 101453, October 3, 1959 ; 101550 and 101551, October 13, 1959.

Arvind Mills Limited, Naroda Road, Ahmedabad-2, India. 97293, November 25, 1958 ; 97990 to 98000. January 14, 1959 ; 98513 to 98517, February 22, 1959.

Ashok Silk Mills, 144, Dharavi Road, Bombay-17, whose proprietors are M/s. Industrial Development and Investment Co., Private Ltd., 98349 and 98350, February 10, 1959 ; 98383, February 14, 1959 ; 98390, February 14, 1959 ; 98400 to 98403, February 14, 1959 ; 98509 to 98512, February 20, 1959 ; 98571 to 98574, February 20, 1959 ; 98801 to 98806, March 20, 1959 ; 98824, March 26, 1959 ; 99412 and 99413, May 18, 1959 ; 99620, May 29, 1959 ; 99659 to 99665, June 3, 1959 ; 99821, June 19, 1959 ; 100507 and 100508, July 28, 1959 ; 100927 to 100929, August 25, 1959.

Asoka Mills Limited, The., Naroda Road, Post Box No. 1060, Ahmedabad. 97379, November 28, 1958 ; 97581 ; December 16, 1958 ; 97687, December 23, 1958 ; 97748, December 30, 1958 ; 98002, January 15, 1959 ; 98091, January 21, 1959 ; 98225, February 2, 1959 ; 98342, February 10, 1959 ; 98416, February 14,

1959 ; 98457, March 14, 1959 ; 99161 and 99162, April 20, 1959 ; **99240**, April 25, 1959 ; 99250, April 27, 1959 ; 99268, April 28, 1959 ; 99368, April 28, 1959 ; 99598, May 27, 1959 ; 99619, May 25, 1959 ; 100005, 100007 to 100010, June 27, 1959 ; 100146 to 100148, July 1, 1959 ; 100627 to 100628, August 4, 1959 ; 100924, August 25, 1959 ; 101230, September 13, 1959 ; 101564 and 101565, October 13, 1959 ; 101827, October 25, 1959.

Bharat Calico Printing Mills Private Ltd., G. T. Road, Amritsar, East Punjab. 98252, February 5, 1959.

Birla Cotton Spg. & Wvg. Mills Ltd., The. Birla Lines, Delhi. 99354, May 9, 1959.

(M/s.) Bombay Dyeing & Mfg. Co., Ltd., Neville House, Ballard Estate, Bombay-1. 97900 and 97901, January 5, 1959 ; 99950 and 99951, June 26, 1959 ; 100397, July 24, 1959 ; 100701 and 100702, August 10, 1959 ; 101542 and 101543, October 13, 1959.

(M/s.) Cadell Weaving Mill Co., Private Ltd., 400, Cadell Road, Bombay-28. 98553 to 98555, February 24, 1959 ; 98576, February 27, 1959.

(Messrs.) Calico Dyeing & Printing Mills (P) Ltd., 41E, Parel Chawl Road, Lalbaug, Bombay-12. 97068 to 97073, November 6, 1958 ; 97544 to 97551, December 10, 1958 ; 97753 to 97758, December 30, 1958 ; 97791 and 97792, December 31, 1958 ; 97935 and 97936, 97939 and 97940, 97942 and 97943, January 9, 1959 ; 97982 to 97985, January 13, 1959 ; 98115 to 98118, January 22, 1959 ; 98146 to 98148, 98150 to 98153, January 27, 1959 ; 98270 to 98272 & 98274, February 5, 1959 ; 98375 to 98381, February 11, 1959 ; 98392, 98394, 98395 and 98397 to 98399, February 14, 1959 ; 98539 to 98544, February 24, 1959 ; 98616, 98618 to 98621, March 3, 1959 ; 98832 to 98837, March 26, 1959 ; 99133 to 99136, 99139 to 99141, 99143, to 99147, April 17, 1959 ; 99318 to 99328, May 4, 1959 ; 99382, 99384 to 99387, May 11, 1959 ; 99611 to 99618, May 28, 1959 ; 99689 to 99691, June 1959 ; 99719 to 99725, June 8, 1959 ; 99823 to 99828, June 12, 1959 ; 99932 to 99934, June 23, 1959 ; 100422 to 100424, 100426 to 100432, 100434, 100436 to 100442, 100444 & 100446 to 100449, July 24, 1959 ; 100511 and 100512, July 28, 1959 ; 100757 to 100760, 100762 to 100776, 100897, 100900 to 100902, August 19, 1959 ; 100997, 100999 to 101006, August 29, 1959 ; 101046 and 101049, September 7, 1959 ; 101080, 101082 to 101085, September 8, 1959 ; 101235 to 101240, September 10, 1959 ; 101293 to 101302, September 22, 1959 ; 101445 to 101448, October 3, 1959 ; 101634 to 101636, 101638 to 101642, October 19, 1959 ; 101776 to 101780, October 25, 1959 ;

Central India Spinning, Weaving and Manufacturing Co., Limited. The. Bombay House, Bruce Street, Fort, Bombay. 99479 to 99525, May 20, 1959 ; 99773 to 99806, June 1959.

Century Spg. & Mfg. Co., Ltd., The. Industry House, 159, Churchgate Reclamation, Bombay-1. 97240 to 97260, November 22, 1958 ; 97301 to 97323, November 25, 1958 ; 97456 and 97457, 97459 to 97462, 97464 to 97475, 97477 to 97479, December 4, 1958 ; 97765 to 97790, December 30, 1958 ; 97854 to 97865, 97867 to 97870, 97872 to 97875, 97877 to 97886, January 5, 1959 ; 98036 to 98041, January 16, 1959 ; 98057 to 98063, January 20, 1959 ; 98074 to 98084, January 20, 1959 ; 98277 to 98296, February 6, 1959 ; 98302 to 98307, & 98309 to 98321, February 6, 1959 ; 98436, February 17, 1959 ; 98562 to 98564, 98566 to 98570, February 24, 1959 ; 98654 to 98666, March 5, 1959 ; 98692, March 9, 1959 ; 98712 to 98723, March 10, 1959 ; 98838 to 98848, March 13, 1959 ; 99021 to 99023, April 9, 1959 ; 99026 to 99039, April 11, 1959 ; 99432 to 99446, May 19, 1959 ; 99986 to 99989, June 27, 1959 ; 100037 to 100095, June 27, 1959 ; 100485 to 100501, July 27, 1959 ; 100515, July 29, 1959 ; 100577 to 100591, August 1, 1959 ; 100729 to 100736, August 11, 1959 ; 100856 to 100859, August 18, 1959 ; 101395 to 101407, September 26, 1959.

Ceylon House Textiles, The. Oyitty Road, Calicut, 97749 to 97752, December 30, 1958 ; 97827, January 3, 1959.

(1) Cheluka Krishna Iyer Srinivasa Iyer, (2) T. Vythiyam Perumal Iyer Balusami Iyer, (3) Dhuruvas Venkatachalapathy Iyer Narayanasamy and (4)

Manicka Srinivasa Iyer Alagarwami Iyer, Trading as Sri Parasakti & Co., of 3, Lakshmipuram 2nd Street, Madurai, Madras. 95475 to 95477, June 24, 1958 ; 97263, November 27, 1958 ; 97543, December 10, 1958 ; 97851, January 5, 1959 ; 97903, January 8, 1959.

Crown Spg. & Mfg. Co., Ltd., Gokhale Road (South), Parel, Bombay-13. 97487 and 97488, December 9, 1958 ; 97716 to 97718, December 26, 1958 ; 98095 and 98096, January 21, 1959 ; 98402, February 18, 1959 ; 98404, February 14, 1959 ; 98752 to 98754, March 14, 1959 ; 98880, March 28, 1959 ; 99044, April 11, 1959 ; 99304, May 1, 1959 ; 99424 and 99425, May 18, 1959 ; 99531 and 99532, May 25, 1959 ; 99534 and 99536, May 25, 1959 ; 99807 to 99809, June 9, 1959 ; 99870 and 99871, June 19, 1959 ; 100157 and 100161, July 3, 1959 ; 100398 to 100402, July 24, 1959 ; 100556 to 100561 and 100563 to 100565, July 31, 1959 ; 100604, August 3, 1959 ; 100911 to 100915, 100917 and 100918, August 21, 1959 ; 100931 and 100932, August 25, 1959 ; 101087 to 101092, September 8, 1959 ; 101196, October 6, 1959.

Delhi Cloth & General Mills Co., Ltd., The. Post Box No. 1039, Bara Hindu Rao, Delhi. 97103, November 12, 1958 ; 97104 to 97114, November 12, 1959 ; 97430 to 97438, December 4, 1958 ; 97600 to 97612, December 17, 1958 ; 97956 to 97967, January 12, 1959 ; 101252 to 101259, September 18, 1959 ; 101370, September 26, 1959.

Elphinstone Dye Works Private Ltd., The. 400, Cadell Road, Bombay-28. 100848, August 15, 1959.

(Messrs.) H. A. Shah & Co., Vasant Vijay Mills, 470-71, Worli Road, Bombay-18. 96851 and 96852, October 7, 1958 ; 96853 and 96854, October 7, 1958 ; 97176, November 12, 1958 ; 97406 and 97407, December 3, 1958 ; 97552, December 11, 1958 ; 97805, January 3, 1959 ; 97887, January 6, 1959 ; 97944, January 9, 1959 ; 98104 and 98105, January 22, 1959 ; 98126 and 98127, January 27, 1959 ; 98246, February 4, 1959 ; 98285, February 14, 1959 ; 98546 and 98547, February 10, 1959 ; 98384, February 14, 1959 ; 98534, February 23, 1959 ; 98489 and 98590, February 28, 1959 ; 98625, March 3, 1959 ; 98724, March 10, 1959 ; 98762 and 98763, March 16, 1959 ; 98797, March 20, 1959 ; 98830 and 98831, March 26, 1959 ; 98989 to 98990, April 6, 1959 ; 99102 and 99103, April 17, 1959 ; 99248, April 27, 1959 ; 99290 and 99291, April 29, 1959 ; 99306, May 2, 1959 ; 99331, May 8, 1959 ; 99355, May 9, 1959 ; 99407, May 18, 1959 ; 99408 to 99411, May 18, 1959 ; 99563 to 99565, May 25, 1959 ; 99637, May 30, 1959 ; 99694 and 99695, June 5, 1959 ; 99731 and 99732, June 8, 1959 ; 99734, June 8, 1959 ; 99805 and 99806, June 23, 1959 ; 99859 and 99860, June 23, 1959 ; 99907 June 23, 1959 ; 99946 and 99947, June 24, 1959 ; 100097 and 100100, June 29, 1959 ; 100176 to 100179, July 4, 1959 ; 100190, July 6, 1959 ; 100199 and 100200, July 7, 1959 ; 100268 and 100269, July 13, 1959 ; 100291, July 13, 1959 ; 100502 and 100503, 100506, July 27, 1959 ; 100545 to 100547, July 29, 1959 ; 100612 to 100616, August 8, 1959 ; 100698, August 10, 1959 ; 100737 to 100739, August 12, 1959 ; 100778, August 14, 1959 ; 100832 and 100833, August 17, 1959 ; 100906, August 20, 1959 ; 100920, August 28, 1959 ; 100958, August 20, 1959 ; 101023, September 5, 1959 ; 101055 to 101058, September 8, 1959 ; 101069 and 101070, September 8, 1959 ; 101193 to 101195, September 11, 1959 ; 101263 to 101265, September 18, 1959 ; 101285, September 19, 1959 ; 101307 to 101309, September 22, 1959 ; 101350 and 101351, September 25, 1959 ; 101459 and 101460, October 3, 1959 ; 101481, October 5, 1959 ; 101552 and 101553, October 13, 1959 ; 101563, October 13, 1959 ; 101662 and 101663, October 20, 1959 ; 101791, October 26, 1959 ; 101850, October 29, 1959 ; and 101874, November 3, 1959.

Hindusthan Embroidery Mills Private Ltd., Chheharta, Amritsar, Punjab. 97562 to 97563, December 12, 1958.

India United Mills Ltd., The. Indu House, Dougall Road, Ballard Estate, Bombay-1. 97082 to 97085, 97087 to 97090 and 97092 and 97093, November 7, 1958 ; 97538, 97539 and 97541, December 10, 1958 ; 97659, 97661 and 97664, December 19, 1958 ; 97844 to 97847, January 5, 1959 ; 98097 to 98100 and 98103, January 21, 1959 ; 98257, 98258, 98261 to 98266, 98268 and 98269, February 5, 1959 ; 98641 to 98646, 98648 to 98653, March 5, 1959 ; 98899 to 98908, 98910, 98912

and 98913, April 1, 1959 ; 100239, 100241 to 100255 and 100257 to 100262, July 9, 1959 ; 100782 to 100786, 100788 to 100801, 100804 to 100823, August 14, 1959 ; 101502 to 101506, 101508 to 101517, 101519 to 101523, October 7, 1959.

Jalan Dyeing & Bleaching Mills, 95, Fergusson Road, Lower Parel, Bombay-13. 96780, October 14, 1958 ; 96787, October 14, 1958.

(Messrs.) Jiyajeerao Cotton Mills Ltd., Birlanagar, Gwalior. 96901, 96903 to 96908 and 96910 to 96924, October 24, 1958 ; 97697 to 97708, December 25, 1958 ; 97974 to 97981, January 17, 1959 ; 99152 to 99160, April 16, 1959 ; 99175 to 99195, April 21, 1959 ; 99460 to 99477, May 22, 1959 ; 100127 to 100133 and 100135 to 100142, July 1, 1959 ; 100292 to 100308, July 13, 1959 ; 100530 to 100544, July 29, 1959 ; 100953, 100954 and 100956 to 100967, August 27, 1959 ; 101071 to 101079, September 8, 1959 ; 101711 to 101721, October 20, 1959.

Kesoram Cotton Mills Limited, 42, Garden Reach Road, Calcutta. 96993, November 1, 1958 ; 97528 to 97535, December 10, 1958 ; 97831 to 97836 and 97838 to 97842, January 3, 1959 ; 98667, 98670, 98672, 98674 to 98683, March 6, 1959 ; 98971 to 98977, 98979 to 98986, April 6, 1959 ; 99066 to 99078, April 14, 1959 ; 99230 to 99237, April 24, 1959 ; 99395 to 99397, 99400 and 99404 to 99406, May 10, 1959 ; 99758 to 99765, June 9, 1959 ; 101352 to 101354, 101359 to 101369, September 26, 1959.

Khatau Makanji Spg. & Wvg. Co., Ltd., The, Laxmi Building, Ballard Estate, Fort, Bombay. 97236 to 97239, November 22, 1958 ; 97357, November 27, 1958 ; 97568 to 97575, December 13, 1958 ; 97673 to 97683, December 13, 1958 ; 97712 to 97715, December 26, 1958 ; 97731 to 97734, December 29, 1958 ; 97799 to 97802, January 2, 1959 ; 98064 to 98068 and 98070, January 20, 1959 ; 98163 to 98170, January 29, 1959 ; 98173 to 98178, January 30, 1959 ; 98218 to 98222, February 2, 1959 ; 98239 to 98244, February 4, 1959 ; 98298 to 98300, February 6, 1959 ; 98417, 98418 and 98420 to 98426, February 16, 1959 ; 98437 to 98440, February 16, 1959 ; 98578 to 98582, February 27, 1959 ; 98595 to 98600, March 2, 1959 ; 98634 to 98637 and 98640, March 3, 1959 ; 98695 to 98702, March 17, 1959 ; 98882 to 98885 & 98887 to 98892, March 30, 1959 ; 98894 and 98895, March 31, 1959 ; 98987 and 98988, April 6, 1959 ; 99059 to 99065, April 14, 1959 ; 99163 to 99166, April 20, 1959 ; 99215 to 99223, April 24, 1959 ; 99295 to 99297, April 29, 1959 ; 99356, 99357, May 11, 1959 ; 99415 to 99420, May 10, 1959 ; 99600 to 99604, May 28, 1959 ; 99641 to 99643, June 1, 1959 ; 99671 to 99676, 99678 to 99686, June 5, 1959 ; 99816 to 99820, June 11, 1959 ; 99849 to 99854, June 16, 1959 ; 99864 to 99866, June 19, 1959 ; 99923 to 99926, June 23, 1959 ; 100149 to 100151 and 100153 & 100154, July 1, 1959 ; 100201 to 100207, July 7, 1959 ; 100232 to 100235, July 10, 1959 ; 100281 to 100285, July 13, 1959 ; 100309 to 100311, July 14, 1959 ; 100383 to 100388, July 22, 1959 ; 100516 to 100523 & 100525 to 100528, July 29, 1959 ; 100605 to 100608, August 3, 1959 ; 100676 to 100678, August 5, 1959 ; 100751 to 100754, August 12, 1959 ; 100837 and 100838, August 17, 1959 ; 100851 to 100855, August 17, 1959 ; 100945 100946, August 25, 1959 ; 100971 and 100972, August 28, 1959 ; 101026 to 101032, September 5, 1959 ; 101094 to 101098, September 9, 1959 ; 101209 to 101212, September 14, 1959 ; 101287 to 101290, September 21, 1959 ; 101342 to 101345, September 24, 1959 ; 101415 to 101423, September 29, 1959 ; 101465 and 101466, October 5, 1959 ; 101482, October 6, 1959 ; 101616 to 101626, October 19, 1959 ; 101730 to 101740, October 21, 1959 ; 101829 to 101833, October 27, 1959 ; 101876 to 101881, November 3, 1959 ; 102059 to 102063, November 13, 1959.

(Messrs.) Krishna Calico Printing Co., Outside Gheemandi Gate, Amritsar, Punjab. 98253, February 5, 1959 ; 99969 and 99970, June 27, 1959.

Lakshmi Cotton Mfg. Co., Ltd., The, 9, Wallace Street, City of Bombay. 98090, January 21, 1959 ; 100836, August 17, 1959.

Mafatlal Fine Spg. & Mfg. Co., Ltd., The, Navsari, Bombay. 96959, 96961, 96964 to 96966, October 29, 1958 ; 97232 and 97233, November 22, 1958 ; 98011 to 98015 and 98017 and 98018 & 98020 to 98024, January 16, 1959 ; 99201, 99203 to 99208 & 99210 to 99212, April 26, 1959 ; 99260 to 99262, April 28, 1959 ; 99880 and 99881 & 99883, June 20, 1959 ; 99964, June 27, 1959 ; 100103 to 100107, 100110,

100112, 100114, 100117 & 100118, June 29, 1959 ; 101666 to 101672, 101674 to 101679, 101681 & 101684, October 30, 1959.

(Messrs.) Mansukh Dyeing and Printing Mills, Suryodaya Mills Compound, Tardeo, Bombay-7. 100332 to 100347, July 18, 1959.

Modi Spinning & Weaving Mills Company Limited of Modinagar, Dist. Meerut, U. P., India. 98154 January 27, 1959 ; 98351 and 98352, February 10, 1959 ; 99045, 99048 and 99050, April 11, 1959 ; 99104, April 17, 1959 ; 99229, April 24, 1959 ; 99353, May 9, 1959 ; 100121 to 100124, June 29, 1959 ; 100450, July 25, 1959 ; 101214 to 101217, September 14, 1959.

(Messrs.) Morarjee Goculdas Spinning & Weaving Company, Soparibaug Road, Parel, Bombay-12. 98808, March 20, 1959.

National Cloth Printing Works, New Cotton Mills Compound, Ahmedabad. 97384 to 97390, December 1, 1958.

Navjivan Mills Private Limited, The, of Kalol, North Gujarat, 100459, 100460, 100462, 100463 & 100465 to 100468, 100475 to 100478 and 100480 and 100481. & 100483, July 27, 1959 ; 101649 to 101652, October 20, 1959.

(M/s) Nehru Silk Mills, Mathuradas Mills Compound, Lower Parel, Bombay-13. 99810 to 99813, June 11, 1959.

(Messrs.) New Era Fabrics Private Limited, Tulsi Pipe Road, Bombay-16. 97794, and 97795, December 31, 1958.

Nutan Mills Ltd., The, Via Voras Roja, Anil Road, Ahmedabad-2 (India). 97746 and 97747, December 29, 1958 ; 98434, February 17, 1959 ; 100504 and 100505, July 27, 1959 ; 101557 to 101559, October 13, 1959.

Panalal Silk Mills Pvt. Ltd., Atlas Mills Compound, Reay Road Mazagon, Bombay-10. 99128 & 99131, April 17, 1959 ; 99608, May 28, 1959 ; 99696, 99699, 99702 & 99703, June 6, 1959 ; 101628 to 101632, October 19, 1959.

(Messrs.) Phoenix Mills Ltd., The, Imperial Bank Building, Bank Street, Fort, Bombay. 96816, October 16, 1958 ; 97209, November 17, 1958 ; 97284 to 97291, November 25, 1958 ; 97735 to 97745, December 29, 1958 ; 97806, 97808 to 97815, January 3, 1959 ; 98134 to 98136, 98138 to 98145, January 27, 1959 ; 98456 to 98468, February 20, 1959 ; 98577, February 27, 1959 ; 98605, 98606, 98608 to 98614, March 3, 1959 ; 98649 to 98657, March 20, 1959 ; 98704 to 98706, March 20, 1959 ; 98825 to 98827, March 26, 1959 ; 99055 to 99058, April 12, 1959 ; 99167 to 99174, April 21, 1959 ; 99199 & 99200, April 23, 1959 ; 99251 to 99255, April 28, 1959 ; 99368, May 11, 1959 ; 99369 to 99375, May 11, 1959 ; 99573 to 99577 & 99579, May 25, 1959 ; 99704 to 99709, June 6, 1959 ; 99909 to 99922, June 23, 1959 ; 100162 to 100175, July 2, 1959 ; 100407 to 100420, July 24, 1959 ; 100593, 100596 to 100599, August 1, 1959 ; 100619 to 100622, 100624 & 100625, August 4, 1959 ; 100877 to 100883, August 19, 1959 ; 101099 to 101109 & 101113, September 9, 1959 ; 101491, 101492, 101494 & 101495, October 6, 1959 ; 101587 to 101592, October 17, 1959.

Ramnikalal Jagjivandas Mehta, Projrietor of Arvind Kumar & Co., Mulji Jetha Market, Madhavrai Gally, Bombay-2. 98391, February 14, 1959.

Sassoon Spinning & Weaving Co., Ltd., The, "Mafatlal House", Backbay Reclamation, Bombay-1. 97443 to 97447, December 4, 1958 ; 97555, December 11, 1958 ; 97568 to 97575, December 5, 1958 ; 97824, January 3, 1959 ; 98042 to 98044, January 17, 1959 ; 98224, February 2, 1959 ; 98276, February 6, 1959 ; 98357 to 98361, February 24, 1959 ; 98633, March 4, 1959 ; 99622 to 99636, May 30, 1959 ; 99839 to 99844, June 15, 1959 ; 100700, August 10, 1959 ; 101757 and 101758, 101760 to 101769, October 22, 1959.

Shree Madhusdan Mills, of Globe Mills Passage, Delisle Road, Bombay-13. 98897 and 98898, April 1, 1959 ; 99040 and 99041, April 11, 1959 ; 99270 to 99274, April 28, 1959 ; 99646 to 99653, June 2, 1959.

Shree Niwas Cotton Mills Ltd., The, Delisle Road, Bombay-13. 96935 to 96940, 96942 to 96955 & 96957, October 29, 1958 ; 97382 & 97383, November 30, 1958 ; 97615 to 97633, December 17, 1958 ; 97635, 97637 to 97654, January 4,

1959 ; 97906 to 97934, January 4, 1959 ; 98198 to 98215, January 31, 1959 ; 98480 to 98508, February 20, 1959 ; 98615, March 3, 1959 ; 98768 to 98784, 98786 to 98787 & 98789 and 98790, March 16, 1959 ; 99089 to 99094, 99096 to 99098, April 16, 1959 ; 99582 to 99596, May 25, 1959 ; 99971 to 99975, June 27, 1959 ; 100348 to 100369, July 18, 1959 ; 100707 to 100727, August 11, 1959 ; 100973 & 100975 to 100987, August 29, 1959 ; 101371 to 101375, 101377 to 101387 & 101389 to 101394, September 26, 1959.

Shree Ram Mills Ltd., Fergusson Road, Parel, Bombay-13. 96741, October 13, 1958 ; 96996, November 1, 1958 ; 97358 to 97360 November 27, 1958 ; 97400, 97402 to 97404, December 3, 1958 ; 97665, December 19, 1958 ; 97804, January 2, 1959 ; 98179 to 98181, 98183 to 98186 & 98188 to 98192, January 30, 1959 ; 98427 to 98433, February 16, 1959 ; 98519, 98520, 98523 to 98527, February 20, 1959 ; 98734 to 98736 and 98738, March 13, 1959 ; 99002, 99003, 99005 to 99010, April 7, 1959 ; 99105 to 99127, April 17, 1959 ; 99738 to 99741, 99744, 99746 to 99752, June 8, 1959 ; 99754 to 99757, June 8, 1959 ; 99953, 99956 to 99958, June 26, 1959 ; 100208, 100214 to 100221, 100223, 100225 & 100229 to 100231, July, 7, 1959 ; 100320 to 100326, July 14, 1959 ; 100569 to 100572, July 31, 1959 ; 100673 & 100674, July 31, 1959 ; 100686, 100688, 100691 to 100694, August 6, 1959 ; 100885 & 100886, 100891 to 100894, August 19, 1959 ; 101018, 101019, 101021 & 101022, September 1, 1959 ; 101063 & 101067, September 8, 1959 ; 101221, 101223 to 101229, September 14, 1959 ; 101318 to 101323, September 23, 1959 ; 101426 to 101428, 101430 and 101431 ; 101433, 101434, September 30, 1959 ; 101501, October 7, 1959 ; 101741 to 101751, October 21, 1959 ; 101785 and 101786, October 26, 1959.

Shree Shubhlaxmi Mills Ltd., Station Road, Cambay. 96394 to 96399, September 15, 1958 ; 97146 to 97157, November 12, 1958 ; 97294 to 97300, November 25, 1958 ; 97582 to 97587, December 16, 1958 ; 100640 to 100674, August 4, 1959 ; 101174 to 101183, September 10, 1959 ; 101467 to 101476, October 5, 1959.

Shyamsunder Kejriwal, 184, Jamunalal Bajaj Street, Calcutta-7. 98162, January 27, 1959.

Silver Cotton Mills Co., Ltd., The, Kankaria Road, Ahmedabad. 97158 to 97161, November 12, 1958 ; 97365 to 97367, November 26, 1958 ; 97392 & 97395, December 2, 1958 ; 97481 to 97484, December 5, 1958 ; 97564 to 97567, December 12, 1958 ; 97590 to 97597, December 16, 1958 ; 97666 to 97669, December 20, 1958 ; 97759 to 97764, December 30, 1958 ; 97815 to 97823, January 2, 1959 ; 97968 to 97973, January 12, 1959 ; 98085 to 98089, January 21, 1959 ; 98092 & 98093, January 21, 1959 ; 98227 to 98236, February 3, 1959 ; 98332 to 98335, February 7, 1959 ; 98337 & 98338, February 9, 1959 ; 98452 to 98455, February 18, 1959 ; 98535 to 98538, February 28, 1959 ; 98628 & 98629, March 3, 1959 ; 98707 to 98711, March 10, 1959 ; 98858 to 98863, March 26, 1959 ; 98914 to 98917, April 1, 1959 ; 98991 & 98992, April 1, 1959 ; 99264 to 99267, April 28, 1959 ; 99275 to 99294, April 29, 1959 ; 99566 to 99572, May 25, 1959 ; 99711 to 99715, June 6, 1959 ; 99726 to 99730, June 8, 1959 ; 99861 to 99863, June 11, 1959 ; 99943 to 99945, June 24, 1959 ; 100156 to 100159, July 6, 1959 ; 100270 to 100272, July 13, 1959 ; 100394 to 100396, July 24, 1959 ; 100403 to 100406, July 24, 1959 ; 100601 & 100602, August 3, 1959 ; 100629 to 100632, August 4, 1959 ; 100779 & 100780, August 14, 1959 ; 100951, August 29, 1959 ; 100990 to 100996, August 29, 1959 ; 101016 & 101017, September 1, 1959 ; 101202 to 101207, September 14, 1959.

Standard Mills Co., Ltd., The, Mafatlal House, Backbay Reclamation, Bombay-1, 98125, January 24, 1959 ; 99447 to 99459, May 20, 1959 ; 99478 to 99496, May 20, 1959 ; 99536 to 99561, May 25, 1959 ; 100453, July 25, 1959 ; 101980 to 101982, November 9, 1959.

Svadeshi Mills Co., Ltd., The, Bombay House, Bruce Street, Fort, Bombay. 97117 to 97122, 97126, 97127, 97129, 97133, 97135 to 97138 & 97140 to 97145, November 12, 1958 ; 97490, 97492 to 97495, 97497, 97498 to 97527, December 9, 1958 ; 98353 to 98357, 98359 to 98372, February 2, 1959 ; 98469, 98471, 98472, 98475, 98476, 98478 & 98479, February 20, 1959 ; 98690, March 9, 1959 ; 98868

to 98878, March 28, 1959; 98941 to 98946, April 2, 1959; 98960 to 98962, April 6, 1959; 99024, 99025, April 11, 1959; 99335 to 99344, 99346 to 99348, 99351 & 99352, May 9, 1959; 99383 to 99387, 99388, 99389, May, 13, 1959; 99767 to 99772, June 7, 1959; 99895, 99896 & 99900, June 23, 1959; 100192, 100194 to 100196, July 7, 1959; 100273 to 100276, July 13, 1959; 100280, July 13, 1959; 100633, 100635, 100636 & 100639, August 4, 1959; 100742 to 100748, August 12, 1959; 101036 to 101038, 101040 to 101042, September 7, 1959; 101441, 101443 & 101444, October 3, 1959.

Swadeshi Cotton Mills Company Limited, The, of Kanpur, U. P., India. 96463 & 96464, September 19, 1958; 97843, January 5, 1959; 98446, February 13, 1959; 98684 to 98686, March 8, 1959; 98948 to 98950, April 2, 1959; 99079 to 99082, April 14, 1959; 99692, June 5, 1959;

Tata Mills Ltd., The, Bombay House, Bruce Street, Fort, Bombay. 97231, November 22, 1958; 97294, December 2, 1958; 97655 to 97657, December 16, 1958; 97720 & 97721, December 27, 1958; 97825 & 97826, January 2, 1959; 97898 & 97899, January 7, 1959; 98128 to 98132, January 27, 1959; 98297, February 6, 1959; 98323 to 98325, February 7, 1959; 98545 to 98552, February 24, 1959; 98683 & 98684, February 28, 1959; 98730 to 98732, March 13, 1959; 98745, March 14, 1959; 98866 & 98867, March 20, 1959; 98937 to 98939, April 2, 1959; 98963 & 98964, April 6, 1959; 99243 & 99244, April 27, 1959; 99305, May 2, 1959; 99526 to 99528, May 21, 1959; 99655, 99657 & 99658, June 3, 1959; 99837 & 99838, June 15, 1959; 100313 & 100315 to 100317, July 14, 1959; 100377 to 100379, July 20, 1959; 100684 August 6, 1959; 100844 to 100847, August 18, 1959; 101013, to 101015, August 31, 1959; 101303 to 101306, September 22, 1959; 101653 to 101658, October 20, 1959;

Travancore Textiles Private Ltd., The, Nemom, Trivandrum. 98123, January 24, 1959.

Tulsi Ram Pahwa, Partner, Panna Calico Printing Mills, R. B. Gagarmal Road, Amritsar, Punjab. 99959, June 26, 1959.

Vashno Calico Dyeing & Printing Mills, Near State Bank, Amritsar, Punjab. 98223, February 2, 1959; 99052, April 13, 1959; 100391, July 23, 1959.

Victoria Mills Limited, The, De Lisle Road, Parel, Bombay-13. 96484 & 96485, September 22, 1958; 97556 & 97558, December 11, 1958; 97613 & 97614, December 17, 1958; 97852 & 97853, January 5, 1959; 100609 to 100611, August 3, 1959; 100617, August 3, 1959; 100797, August 13, 1959; 100827 to 100831, August 17, 1959; 101007 to 101012, August 29, 1959; 101059 to 101061, September 8, 1959; 101114 & 101115, September 9, 1959; 101160 to 101163, September 10, 1959; 101338 to 101341, September 23, 1959; 101478, to 101480, October 5, 1959; 101572 to 101575, October 14, 101772 to 101775, October 22, 1959; 101836 to 101838, October 27, 1959.

(M/s.) Vijay Dyeing & Printing Mills, Atlas Mills Compound, Reay Road, Bombay-10. 98518, February 20, 1959; 99294, April 29, 1959; 99669, June 4, 1959.

CLASS 14.—*Printed or woven designs on textile goods being checks or stripes.*

Ahmedabad Advance Mills Ltd., The, Bombay House, Bruce Street, Fort, Bombay. 97393, December 2, 1959; 99312, May 4, 1959.

Asoka Mills Ltd., The, Post Box No. 1050, Naroda Road, Ahmedabad. 99285, April 29, 1959; 100000 to 100004, 100006, 100011 to 100016, 100018-100019, 100021 to 100052, June 27, 1959; 100143 to 100145, July 1, 1959.

Calico Dyeing & Printing Mills Private Ltd., 41E, Parel Chawl Road, Lalbaug, Bombay-12. 96028, August 12, 1958; 97941, January 9, 1959; 98273, February 5, 1959; 98393 to 98396, February 14, 1959; 100510, July 28, 1959; 100895 & 100899, August 19, 1959.

Century Spg. & Mfg. Co. Ltd., The, 159, Churchgate Reclamation, Bombay-1. 97463 to 97476, December 4, 1958; 97871, January 3, 1959; 98061-98062, January 20, 1959.

Crown Spg. & Mfg. Co. Ltd., Gokhale Road (South), Parel, Bombay-13. 99535 & 99537, May 25, 1959 ; 99872, June 19, 1959 ; 100908 to 100910, August 21, 1959 ; 101093, September 9, 1959.

India United Mills Ltd., The, Indu House, Dougall Road, Ballard Estate, Bombay-1. 97086 to 97094, November 7, 1958 ; 97537, 97540 & 97542, December 10, 1958 ; 98259-98260 & 98267, February 5, 1959 ; 98909 and 98911, April 1, 1959 ; 100240 to 100256, July 9, 1959 ; 100781, 100787 & 100802-100803, August 14, 1959.

Kesoram Cotton Mills Limited, 42, Garden Reach Road, Calcutta-24. 96994, November 1, 1958 ; 98669 and 98671, March 6, 1959 ; 98978, April 6, 1959 ; 99238, April 24, 1959.

Khatau Makanji Spg. & Wvg. Ltd., The, 6, Ballard Pier, Laxmi Building, Fort, Bombay. 98441, February 13, 1959 ; 98893, March 31, 1959 ; 99640, June 1, 1959 ; 101286, September 21, 1959 ; 101424, September 29, 1959.

Mafatlal Fine Spg. & Mfg. Co. Ltd., The, of Navsari, Bombay. 96958, 96960, 96962, 96963 & 96967, October 29, 1958 ; 97225, November 22, 1958 ; 98010 to 98019, January 16, 1959 ; 98025 to 98035, January 16, 1959 ; 99257 to 99259, April 28, 1959 ; 99877 to 99879 & 99882, June 20, 1959 ; 100101, 100102, 100108-100109, 100113, 100116, 100119 and 100151, June 29, 1959 ; 101665, 101673, 101680, 101682-101683 and 101685, October 20, 1959.

Navjivan Mills Private Limited, The, Kalol, North Gujarat. 100461, 100464, 100469 to 100471, 100473, 100474, 100479, 100482 & 100484, July 27, 1959.

Nutan Mills Limited, The, Anil Road, Via Vora's Roja, Ahmedabad-2. 100509, July 28, 1959 ; 101033, September 5, 1959.

Panala Silk Mills Pvt. Ltd., Atlas Mills Compound Reay Road, Mazagone, Bombay-10. 99129-99130 & 99132, April 17, 1959 ; 99607, 99609-99610, May 22, 1959 ; 99697, June 6, 1959.

Phoenix Mills Ltd., The, Imperial Bank Building, Bank Street, Fort, Bombay. 97807, January 3, 1959 ; 98133, January 27, 1959 ; 98697, March 3, 1959 ; 99198, April 23, 1959 ; 99256, 99263, April 28, 1959 ; 99376 & 99377, May 11, 1959 ; 99578, May 25, 1959 ; 99908, June 23, 1959 ; 99961 to 99968, June 27, 1959 ; 100594-100595, August 1, 1959 ; 101110 to 101112, September 9, 1959 ; 101496, October 6, 1959.

Shree Niwas Cotton Mills Ltd., The, Delisle Road, Bombay-13. 97634 & 97636, December 17, 1958 ; 98785 to 98788, March 16, 1959 ; 99095, April 16, 1959 ; 99985, June 27, 1959.

Shree Ram Mills Limited, Fergusson Road, Parel, Bombay-13. 98187, January 30, 1959 ; 98523, February 20, 1959 ; 100228, July 7, 1959 ; 100319, July 14, 1959 ; 100563, July 31, 1959 ; 100685, 100687, 100689 & 100693, August 6, 1959 ; 101020, September 1, 1959.

Sri Krishna Spg. & Wvg. Mills (Private) Ltd., Chickpet, Post Box No. 524, Bangalore, India. 98798 to 98800, March 20, 1959.

Swadeshi Mills Co. Ltd., The, Bombay House, Bruce Street, Fort, Bombay-1. 98470, 98473-98474, 98477, February 20, 1959 ; 98691, March 9, 1959 ; 98940, April 2, 1959 ; 99350, May 9, 1959 ; 99766, June 9, 1959 ; 99897 to 99899, June 22, 1959 ; 100077, July 13, 1959 ; 100191, 100193 and 100197, July 14, 1959 ; 100634, 100637-100638, August 4, 1959 ; 100740-100741 & 100749, August 12, 1959 ; 101039 & 101043, September 7, 1959 ; 101442, October 3, 1959.

Swadeshi Cotton Mills Company Limited, The, Kanpur, U. P., India. 99093, June 5, 1959.

Tata Mills Ltd., The, Bombay House, Bruce Street, Fort, Bombay. 99242, April 27, 1959 ; 99529, May 21, 1959 ; 99656, June 3, 1959 ; 100314, July 14, 1959 ; 100921, August 24, 1959.

PART VI

Special Proceedings (Designs), 1960.

A.—Extension of Copyright in designs under Sections 47(2) and 47(3) of the Indian Patents and Designs Act, 1911.

Design No.	Class No.	Date upto which the copyright has been extended.
71722	4	9th December, 1964.
71898	3	2nd February, 1965.
71938	3	14th February, 1965.
72318	1	12th January, 1965.
72444	4	18th May, 1965.
72643	1	7th June, 1965.
72655 and 72656	4	4th January, 1965.
72695	3	27th June, 1965.
72717 to 72719	4	7th June, 1965.
72766	3	27th July, 1965.
72875 and 72876	3 & 10	7th September, 1965.
72915 to 72921	13	30th September, 1965.
73318 and 73319	3	8th November, 1965.
73412	1	20th April, 1966.
73459	5	5th May, 1966.
73751 and 73752	3	18th September, 1966.
77532 and 77533	5	28th November, 1963.
77586	3	4th December, 1968.
77619	5	10th December, 1963.
78644	5	1st April, 1964.
79231	1	22nd June, 1964.
80508	1	13th November, 1964.
80566 to 80568	3	17th November, 1964.
80854	5	7th December, 1964.
80865 to 80868	1	8th December, 1964.
80933 to 80935	5	14th December, 1964.
80976	5	7th December, 1964.
81077	4	28th December, 1964.
81133	1	3rd January, 1965.
81244	1	14th January, 1965.
81327 and 81328	3	22nd January, 1965.
81357	1	24th February, 1965.
81424	6	27th January, 1965.

Design No.	Class No.	Date upto which the copyright has been extended.
81426	5	29th January, 1965.
81606	3	10th February, 1965.
81612	5	11th February, 1965.
81636	13	12th February, 1965.
81683	5	18th February, 1965.
81930	4	15th August, 1965.
81961	5	21st March, 1965.
81975 and 81976	1	22nd March, 1965.
81999	5	24th March, 1965.
82024 and 82025	1	28th March, 1965.
82083 to 82085	1	31st March, 1965.
82086	4	1st April, 1965.
82173	1	7th April, 1965.
82174	1	7th April, 1965.
82210	1	29th November, 1964.
82224	5	14th April, 1965.
82244 and 82245	1	18th April, 1965.
82368	5	3rd April, 1965.
82515	13	10th May, 1965.
82516	1	10th May, 1965.
82558	5	13th May, 1965.
82670	12	21st May, 1965.
82683	3	1st March, 1965.
82686	1	26th May, 1965.
82731	3	28th May, 1965.
82777	1	3rd June, 1965.
82964	5	27th June, 1970.
82991	1	13th April, 1965.
83001	3	30th June, 1965.
83024	4	2nd July, 1965.
83137	13	13th July, 1965.
83147	1	13th July, 1965.
83252	5	25th July, 1965.
83281	4	26th July, 1965.
83380 and 83381	14	6th August, 1965.
83387	4	6th August, 1965.
83465	5	16th August, 1965.
83469 to 83471	1	25th February, 1965.
83493	5	22nd August, 1965.
83635	1	12th March, 1965.
83636	1	12th March, 1965.
83684	5	5th September, 1965.

Design No.	Class No.	Date upto which the copyright has been extended.
83705	3	6th September, 1965.
83706	3	13th May, 1965.
83924	5	27th September, 1965.
83937	5	28th September, 1965.
83974	5	1st October, 1965.
84056	3	7th October, 1965.
84131	3	30th June, 1965.
84137	4	13th October, 1965.
84138 and 84139	3	14th October, 1965.
84171	5	19th October, 1970.
84191	1	20th October, 1965.
84219	3	23rd October, 1970.
84220	3	28th October, 1965.
84261	5	1st November, 1970.
84262	5	1st November, 1965.
84330	3	5th November, 1965.
84331	3	5th November, 1965.
84375	5	8th November, 1965.
84385 and 84386	13	9th November, 1965.
84456	13	17th November, 1965.
84480	5	21st November, 1965.
84481	4	21st November, 1965.
84489 and 84490	3	22nd November, 1965.
84491	5	22nd November, 1965.
84565 and 84566	3	29th November, 1965.
84578	3	1st December, 1965.
84784	13	13th December, 1965.
84785 and 84786	1	13th December, 1965.
84834 and 84835	5	20th December, 1965.
84925	1	29th December, 1965.
85001 and 85002	3	4th January, 1966.
85090	3	20th August, 1965.
85189	3	24th January, 1966.
85487	5	18th February, 1966.
85567	3	29th February, 1966.
85631	4	5th March, 1966.
85727	1	13th March, 1966.
85801	3	19th March, 1966.
86068	5	17th April, 1966.
86157	3	26th April, 1966.
86158	1	26th April, 1966.
86159 to 86161	3	26th April, 1966.

Design No.	Class No.	Date upto which the copyright has been extended.
86223	3	16th December, 1965.
87762 to 87765	3	1st September, 1966.
88269	3	10th October, 1966.
90685	1	24th April, 1967.
90686	14	29th April, 1967.
92796 to 92799	1	16th October, 1967.
95189	1	28th May, 1968.
95269	1	3rd June, 1968.
95270	3	3rd June, 1968.
100683	5	6th August, 1974.
100925	1	25th August, 1974.
100926	3	25th August, 1974.
101034	1	5th September, 1974.
101979	4	9th November, 1969.
102535	4	5th December, 1969.
104201	1	31st March, 1975.
105133	3	10th June, 1975.

B.—Cancellation of the Registration of Designs.

Design No.	Name of the Registered Proprietor.	Results.
88541	Tek Singh.	Pending.
91045	The Bombay Brass & Metal Works.	Application dismissed.
94602	Ghudusaheb Rasoola Saheb Yaksambi, Rasool Saheb Ghudusaheb Yaksambi Dr. Shankarappa Mallapa Ambi.	Pending.
94603	Do.	Pending.
94718	Vijay Dyeing and Printing Mills.	Application treated as withdrawn.
94778	Puthur Govindappa Mudaliar Narayanaswamy Mudaliar & Puthur Gvindappa Mudaliar Subramania Mudaliar.	1st Cancellation Registration cancelled. 2nd Cancellation Application became infructuous.
94779	Do.	1st Cancellation Registration cancelled. 2nd Cancellation Application became infructuous.
95085	Oriental Soap Works.	Application dismissed.
95322	The Khatau Makanji Spg. & Wvg. Co. Ltd.	Application dismissed.
96211	Ivocom Private Ltd.	Registration cancelled.

Design No.	Name of the Registered Proprietor.	Results.
96461(v)	Shantilal Chhaganlal & Co.	Pending.
96614	Shital Prashad Jain, Babu Ram Jain, Prakash Chand Jain and Shantisarup Jain.	Application for cancellation withdrawn.
98160	Asia Electric Co.	Pending.
98727	Jai Narain Singh.	1st Cancellation 2nd Cancellation } Pending.
100603	Natvarlal Ramanlal Gandhi	1st Cancellation 2nd Cancellation } Pending.
100683	Jalan Chemical Works.	Pending.
102540	Rakhal Chandra Choudhury.	Pending.
103007	Pasumarthy Subramaniam Chettiar.	Pending.
103123	Harendra Chandra Dutta.	Pending.
103124	Rakhal Chandra Choudhury.	Pending.
103125	Do.	Pending.
103126	Do.	Pending.
103444	Do.	Pending.
103445	Do.	Pending.
103446	Do.	Pending.
103447	Do.	Pending.
103448	Harendra Chandra Dutta.	Pending.
103796	Mahabir Prasad.	Pending.
104303	Om Parkash Mehta.	Pending.

C.—Correction of clerical errors under Section 62.
99309, 99835.

D.—Registration of Assignments, Licences, etc.,

Assignments, Licences or other transaction affecting the interest of the original proprietors have been registered in respect of the designs bearing the following registration numbers. The number of each design is followed by the names of the applicants for registration.

Design No.	Name of the Registered Proprietor.
81930	1st Corn Products Company, a New Jersey Corpn. 2nd Corn Products Company, a Delaware Corpn.
86228	1st Corn Products Company, a New Jersey Corpn. 2nd Corn Products Company, a Delaware Corpn.
86229	1st Corn Products Company, a New Jersey Corpn. 2nd Corn Products Company, a Delaware Corpn.
96626	Himalayan Cutlery Works.
98624	Fairchild Arms International Limited.

PART VII

Name Index (Patents), 1958.

Name Index of Applicants for Patents in connection with Applications filed during 1958.

Names	Register Numbers.
A	
Abott Laboratories	63050, 64964
Abildgaard, K.	64631, 66284
Abrasive Development Ltd.	63842
Accles and Pollock Ltd.	66047
Accurate Tools (Saunders) Limited	64536
ACF Industries Incorporated	65945
Acharya, R. P.	65758
Acharyya, B. N.	64818, 64819
Acheson Industries, Inc.	65535
Ackerman, S.	65540
Adequate Weighers Limited	64736
Adie, G. M.	65133, 65134, 65135, 65136
A. E. I. Hotpoint Limited	65719
A. E. I. John Thompson Nuclear Energy Co. Ltd.	62783, 62824, 63216 63217, 63474, 64467 64633, 65078, 65079 65080, 65081, 65460 65548
Aerovap Holdings Limited	65033, 65034, 65035
Afco Private Limited	64675
Aga, K. J.	62846
Agarwal, R. K.	64814
Aghnides, E. P.	63091
Agricultural Development Society	62785, 62786
Ahmed, H. A.	65424, 65785, 65985, 65986
Air Exchangers Limited	65051
Ajmera, S. A.	66272
Ajmera, V. C.	66272
Akhil Bharat Sarva Seva Sangh	64971
Aktienbolaget Astra, Apotekarnes Kemiska Fabriker	63866, 64344
Aktiebolaget Bahco	64215
Aktiebolaget Bofors	63835, 65971
Aktiebolaget Electrolux	63061, 64439

Names	Register Numbers.
A—contd.	
Aktiebolaget Industrikompaniet	63627
Aktiebolaget Kabi	65957
Aktiebolaget Svenska Flaktfabriken	63852, 63853
Aktiebolaget Svenska Kullagerfabriken	62792, 62793
Aktiebolaget Tudor	63278, 64123
Aktiengesellschaft Fur Unternehmungen Der Eisen-Und Stahlindustrie	63053, 64003
Aktieselskabet De Danske Sukkerfabrikker	62728
Alacchi, G.	64404
Alamance Industries Inc.	63250
Albert David Ltd.	66049
Alberts, H.	65386
Albion Plywood Ltd., The	64642
Albrecht, R.	65215
Albu, H. W.	63633
Alembic Chemical Works Company Limited	63760, 63913, 63914, 64469, 64603, 65154
Alimak-verkan, A. B.	66132
Ali, S. M. I.	65866
Alladin, H. G.	66012
Allen and Hanburys Limited	64051
Allis-Chalmers Manufacturing Company	64671
Aluminium-Industire-Aktien gasellschaft	63583, 65167, 66144,
Aluminium Laboratories Limited	63766, 64340, 64810, 65904
Alweg-Forschung Gesellschaft Mit Beschränkter Haftung	64610, 65209, 65679
Amchem Products Inc. (Formerly known as American Chemical Paint Company)	64661
Amco Industries	63467
American Cyanamid Co.	62957, 62958, 63160, 63161, 63208, 63418, 63455, 63456, 63457, 63802, 64006, 64250, 64261, 64746, 64747, 64897, 64910, 64926, 65026, 65027, 65271, 65370, 65625, 65728, 66138, 66177, 66178, 66213
American Flange and Manufacturing Co. Inc.	64387
American Home Products Corporation	62909, 64300
American Mariatta Co.	64404
American Steel Foundries	63086, 63646, 63845 65749, 65750
American Screw Company	63774
Ames Crosta Mills and Company Limited	63557
Ames Irrigation Export-Pty. Ltd.	65978
Amsler, M.	66010
Amzel Private Ltd.	65204

Names	Register Numbers.
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A. M. Zimmermann & Co.	63453, 63454
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Angus Co. Ltd., The	63157
Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen ENERGIA	63971, 63972
Anvindyamanik, C. A.	63553, 65100, 65152
Appel, C.	64355, 64356
Aransky Associates, Inc.	64300
Arenas, C. A.	63413
Armour Research Foundation of Illinois Institute of Technology	63330, 63339
Arnold, Hoffman & Co., Incorporated	65442
Arthur, E. M.	63784, 64786
Asahi Kasei Kogyo Kabushiki kaisha	64338
Asar, D. P.	63894, 64246, 65165
Asari, A. K.	65783
A/S Kosangas	63711, 63712
Aslam, M.	65207
Asplund, A. J. A.	65605, 65606
Associated Apparel Private Limited	63576
Asta-Werke Aktiengesellschaft	63126, 63933, 64480
Asta Werke Aktiengesellschaft Chemische Fabrik	64634, 65953
Ateliers De Constructions Mechaniques De Vevey S. A.	63127
Ateliers Houget, Societe Anonyme Vervietoise pour la Construction de Machines	65142
Atiengesellschaft Vormals Meyer-Waespi and Cie	62920
Automatic Telephone & Electric Co. Ltd.	62724, 62860, 63291 63292, 63428, 63429 63737, 63738, 63849 63850, 63851, 64178 64179, 64848, 64992 65084, 65085, 65381 65487, 65699, 65700 65842, 65856, 66036 66098, 66099
Avests Jernverks Aktiebolag	65241
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Bagga, A. S.	64677
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Baltzar Von Platen	64809
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Banerjee, K. K.	62905, 62906, 62907
Banerjee, S.	65313
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Bancroft-Brillotex International S.A.	63477
Bansi & Co.	64904
Barabas, J.	65717
Baro, A. R.	64174
Bartell, C.	62844, 64562, 64563
Bassinger Tool Company	64320
Basu, D. P.	63785, 65555
Bataafsche Petroleum Maatschappij, N. V.	65049, 65140, 65266, 65267 65461, 65558, 65908, 65909 66044, 66122, 66123, 66260
Bata Shoe Company Private Limited	64197, 65151, 65168 65169, 65170, 65837
Baumann, P. H.	62749
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Baxter, D. C.	64891
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Beecham Research Laboratories Limited	64824, 65870
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Bellrock Gypsum Industries Ltd.	65652
Bendix Aviation Corporation	65828
Bendz Limited	65540
Bengal Immunity Co. Ltd.	64871
Benjamin Foster Co.	65910
Benzol Products Co.	65490
Bernt, E. W.	65386
Berth, Levi & Co.-Inc.	65505
Besseneer Securities Corporation	62946
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Bharat Motor Company, The	64190
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Bharucha, N. D.	63077, 63940, 65071
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Nanavati, M. M.	65014
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Nation Lead Company	64115
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National Gas and Oil Engine Co. Ltd., The	65264
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National Research Development Corporation	63116, 64101.
National Smelting Co. Ltd., The	62807, 62808, 63284, 65545, 66031.
National Standard Co.	65149, 65150.
National Wire Heald Works (Private) Ltd., The	63264, 63265.
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NSU Werke Aktiengesellschaft	63423, 65287, 65884.
N. V. Curacaosche Exploitatie Maatschappij UTO	63634, 65567.
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N. V. Industriële Onderneming W. H. Braskamp	65090, 65091.
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N. V. Koninklijke Pharmaceutische Fabrieken V/H Brocades-Stheeman & Pharmacia	63044, 64187.
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Reynolds Metals Co.	64435, 65863.
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Schlyter, B. (Mrs.)	65853
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Sinha, S. N.	63551
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Societe Anonyme De Participations Appareillage Gardy	64510, 64811.
Societe Anonyme Des Manufactures Des Glaces Et Produits Chimiques De Saint-Gobain Chauny & Cirey	62800, 63134, 63139, 63359, 63360, 63682, 64029, 64041, 64397, 64485, 64712, 64963, 65634, 65865, 65899, 66267.
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Societe D'Electro-Chimie, D'Electro-Metallurgie Et Des Acieries Electriques D'Ugine	63014, 63015, 63062.
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Societe Genevoise D'Instruments De Physique	62884, 64645, 64228.
Societe Normande De Matieres Plastiques	64644
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Secony Mobil Oil Co. Inc.	64009, 64212, 65521, 65962, 66156.
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Somayaji, A. S. R.	63488
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Sood, J. P.	63570
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Standard Telephones and Cables Ltd.	62774, 63072, 63073, 63074, 63218, 63219, 63297, 63338, 63582, 64231, 64232, 64233, 64419, 64429, 64737, 65032, 65219, 65394, 65670, 65900, 66106, 66117.
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Styrene Products Ltd.	63491
Subervie, A.	66256
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Svenska Aktiebolaget Bromsregulator	64695, 66227.
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Swiss Serum and Vaccine Institute	65723
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Syntex, S. A.	63329, 63331, 64676, 64864, 65284, 65346, 65347.
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Technical Enterprises, Inc.	64258
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Texaco Development Corporation	66065
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Tobacco Bye-Products Private Ltd.	63119
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Union Carbide Corporation	62768, 62932, 63009, 63023, 63035, 63163, 63303, 63348, 63466, 63476, 63496, 63575, 63581, 63587, 63621, 63622, 63806, 64147, 64199, 64200, 64201, 64208, 64209, 64230, 64255, 64357, 64422, 64577, 64713, 64785, 65076, 65114, 65294, 65371, 65372, 65388, 65389, 65450, 65498, 65541, 65897, 65898, 66116, 66180, 66240, 66243.
Union Des Verreries Macaniques Belges Societe Anonyme	65184, 65185, 65186.
United Chemicals (London) Ltd.	64724
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United Kingdom Atomic Energy Authority	62838, 62944, 63020, 63392, 63726, 63787, 63792, 63793, 64369, 64370, 64371, 64372, 64373, 64374, 64375, 64388, 64490, 64558, 64646, 65045, 65452, 65453, 65547, 65553, 65808, 65859, 65903, 66046.
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Sipahimalani, D. N.	3/58
Societe Omaro S. A. (Pondée a Paris en 1928).	5/59
Sourastra-Metal Industries	1/59
Spencer Aerated Water Factory Pvt. Ltd.	4/59
Sri Krishna Spg. & Wvg. Mills (Pvt.) Ltd.	14/59
Stainless Steel Agency (Pvt.) Ltd.	1/58
Standard Mills Co. Ltd., The	13/59
Stikfix Limited	3/59
Stoessel, W. R.	3/59
Stones, E. M.	1/59
Stott, J. W.	1/59, 3/59, 6/59.
Sud, R. C.	1/59
Sundaram, A. K. N.	5/58
Super Traders	3/58
Swadeshi Mills Co. Ltd., The	13/58, 13/59, 14/59.
Swadeshi Cotton Mills Co. Ltd., The	13/58, 13/59, 14/59.
Swadeshi Industries Ltd.	3/58
Swadeshi Type Foundry	1/59
Swadeshi Tin Industries	1/59
Swaminathan, P. N.	5/59
Swastik Agency	4/58
Synthetic Moulders Ltd.	3/59

Name	Class No. and Year
T	
T. A. S. Ratnam Bros.	5/58
Tandon, V.	3/59
Tarachand	3/58
Tarkar, B. K.	1/59
Tarkar, D. B.	1/59
Tarkar, K. B.	1/59
Tata Mills Ltd., The	13/58, 13/59, 14/59.
Thajuddia, C. S.	11/58
Thakkar, P. K.	1/59
Tibbet Musk Depot	5/58
Tirmiri & Co.	3/59
Titarbux, A. H.	1/59
Travancore Textiles (Pvt.) Ltd., The	13/59
Tuberhai, M.	5/59
U	
United Metal Industries	1/58, 1/59.
Upper Ganges Sugar Mills Ltd.	4/59
V	
Vadra, D. J.	1/59
Vakeel, S. M.	3/58
Varma Industries Private Ltd.	3/59
Vashano Calico Dyeing & Printing Mills, The	13/59
Venkatachari, R. M.	3/58
Venkataraman, M. S.	3/58
Venus Industries (India)	3/59
Verma, K. L.	4/59
Victoria Mills Ltd., The	13/58, 13/59.
Vijay Bakelite Trading Co.	3/59
(Messrs.) Vijay Dyeing & Printing Mills.	13/59
Vindhya Pradesh Mining Works	5/59
Virco Industries	3/59
Vishivkarma Foundry	1/58, 1/59.
Vishiv Karma, N. K.	1/59
W	
Weddel (India) Pvt. Ltd.	4/59, 5/59.
Wire Pin Industries	5/59
Z	
Zenith Cycle Industries	1/58



